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020001096056us-gaap:ForeignPlanMember2023-01-012023-04-02
UNITED STATESSECURITIES AND EXCHANGE COMMISSIONWASHINGTON, D.C. 20549FORM 10-Q â˜’QUARTERLY
REPORT PURSUANT TO SECTIONÂ 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OFÂ 1934 For the Quarterly Period Ended JuneÂ 30, 2024 ORâ˜TRANSITION REPORT PURSUANT TO
SECTIONÂ 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OFÂ 1934Commission File NumberÂ 001-35370 Luxfer Holdings PLC (Exact Name of Registrant as Specified in Its
Charter)England and Wales98-1024030State or Other Jurisdiction ofÂ Incorporation or OrganizationI.R.S. Employer Identification No.8989 North Port Washington Road, Suite 211,Milwaukee,
WI, 53217 Address of principal executive officesRegistrantâ€™s telephone number, including area code: +1 414-269-2419 Securities registered pursuant to Section 12(b) of the Act:Title of each
classTrading Symbol(s)Name of each exchange on which registeredOrdinary Shares, nominal value Â£0.50 eachLXFRNew York Stock ExchangeSecurities registered or to be registered
pursuant to SectionÂ 12(g) of the Act:Â NoneIndicate by check mark whether the registrant (1)Â has filed all reports required to be filed by SectionÂ 13 or 15(d) of the Securities Exchange Act
of 1934 during the preceding 12Â months (or for such shorter period that the registrant was required to file such reports), and (2)Â has been subject to such filing requirements for the past
90Â days. YesÂ Â Â Â xÂ NoÂ Â Â Â oIndicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to RuleÂ 405 of
RegulationÂ S-T (Â§232.405 of this chapter) during the preceding 12Â months (or for such shorter period that the registrant was required to submit such files).
YesÂ Â Â Â xÂ NoÂ Â Â Â oIndicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, smaller reporting company or an emerging
growth company. See definition of "large accelerated filer", "accelerated filer", "smaller reporting company" and "emerging growth company" in RuleÂ 12b-2 of the Exchange Act.:Large
accelerated filerÂ oAccelerated FilerxNon-accelerated filerÂ oSmaller reporting companyÂ â˜Emerging growth companyÂ â˜If an emerging growth company, indicate by check mark if the
registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.
oIndicate by check mark whether the registrant is a shell company (as defined in RuleÂ 12b-2 of the Act). YesÂ Â Â Â â˜Â NoÂ Â Â Â xThe number of shares outstanding of Registrantâ€™s only
class of ordinary stock on JuneÂ 30, 2024, was 27,386,677.TABLE OF CONTENTSPagePART I FINANCIAL INFORMATIONItem 1.Condensed Consolidated Financial Statements
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Market Risk35Item 4.Controls and Procedures35PART II OTHER INFORMATIONItem 1.Legal Proceedings36Item 1A.Risk Factors36Item 2.Unregistered Sales of Equity Securities and Use of
Proceeds36Item 5.Other Information36Item 6.Exhibits36Signatures37PART I - FINANCIAL INFORMATIONItem 1.Â Â Â Â Â Â Â Â Condensed Consolidated Financial Statements
(unaudited)LUXFER HOLDINGSÂ PLCCONDENSED CONSOLIDATED STATEMENTS OF (LOSS) / INCOME (UNAUDITED)Second QuarterYear-to-dateIn millions, except share and per-share
data2024202320242023Net sales$99.7Â $110.4Â $189.1Â $211.7Â Cost of goods sold(77.7)(86.2)(148.7)(166.4)Gross profit22.0Â 24.2Â 40.4Â 45.3Â Selling, general and administrative
expenses(11.9)(12.8)(23.5)(25.3)Research and development(1.1)(1.0)(2.3)(2.2)Restructuring charges(1.1)(2.5)(1.8)(2.8)Acquisition and disposal related costs (9.2)â€”Â (9.4)â€”Â Other
income5.1Â â€”Â 5.3Â â€”Â Operating income3.8Â 7.9Â 8.7Â 15.0Â Net interest expense(1.3)(1.8)(2.7)(3.1)Defined benefit pension credit / (charge)0.2Â 0.6Â 0.5Â (8.3)Income before income
taxes2.7Â 6.7Â 6.5Â 3.6Â (Provision) / credit for income taxes(3.1)(1.8)(4.1)1.8Â Net (loss) / income from continuing operations(0.4)4.9Â 2.4Â 5.4Â Loss from discontinued operations, net of
tax(0.1)(0.2)(0.2)(0.2)Net loss from discontinued operations(0.1)(0.2)(0.2)(0.2)Net (loss) / income(0.5)4.7Â $2.2Â $5.2Â (Loss) / earnings / per share1Basic from continuing
operations(0.01)0.18Â $0.09Â $0.20Â Basic from discontinued operations2(0.01)(0.01)(0.01)(0.01)Basic(0.02)0.17Â $0.08Â $0.19Â Diluted from continuing
operations(0.01)0.18Â $0.09Â $0.20Â Diluted from discontinued operations2$â€”Â (0.01)(0.01)$(0.01)Diluted(0.02)0.17Â $0.08Â $0.19Â Weighted average ordinary shares
outstandingBasic26,831,372Â 26,923,804Â 26,826,123Â 26,922,528Â Diluted26,932,291Â 27,065,338Â 26,892,230Â 27,083,986Â See accompanying notes to condensed consolidated financial
statements1 The calculation of earnings per share is performed separately for continuing and discontinued operations. As a result, the sum of the two in any particular period may not equal the
earnings-per-share amount in total.2 The loss per share for discontinued operations has not been diluted, since the incremental shares included in the weighted-average number of shares
outstanding would have been anti-dilutive.1LUXFER HOLDINGSÂ PLCCONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE (LOSS) / INCOME (UNAUDITED)Second
QuarterYear-to-dateIn millions2024202320242023Net (loss) / income (0.5)4.7Â $2.2Â $5.2Â Other comprehensive (loss) / incomeNet change in foreign currency translation adjustment, net of
tax(0.2)3.4Â (2.0)6.8Â Pension and post-retirement actuarial gains, net of $0.1, $0.1, $0.2 and $5.0 tax, respectively0.1Â 0.2Â 0.4Â 7.0Â Other comprehensive (loss) / income, net of
tax(0.1)3.6Â (1.6)13.8Â Total comprehensive (loss) / income(0.6)8.3Â $0.6Â $19.0Â See accompanying notes to condensed consolidated financial statements2LUXFER
HOLDINGSÂ PLCCONDENSED CONSOLIDATED BALANCE SHEETS (UNAUDITED)June 30,December 31,In millions, except share and per-share data20242023Current assetsCash and cash
equivalents$4.3Â $2.3Â Restricted cash0.3Â 0.3Â Accounts and other receivables, net of allowances of $0.6 and $0.7, respectively60.9Â 59.9Â Inventories88.2Â 95.9Â Current assets held-for-
sale23.4Â 8.9Â Other current assets1.5Â 1.5Â Total current assets$178.6Â $168.8Â Non-current assetsProperty, plant and equipment, net$63.1Â $63.8Â Right-of-use assets from operating
leases14.3Â 15.4Â Goodwill67.2Â 67.5Â Intangibles, net11.6Â 12.0Â Deferred tax assets3.5Â 3.9Â Investments and loans to joint ventures and other affiliates0.4Â 0.4Â Pensions and other
retirement benefits41.1Â 40.3Â Total assets$379.8Â $372.1Â Current liabilitiesCurrent maturities of long-term debt and short-term borrowing$0.2Â $4.6Â Accounts
payable27.5Â 26.5Â Accrued liabilities23.2Â 20.9Â Taxes on income5.1Â â€”Â Current liabilities held-for-sale9.4Â 3.9Â Other current liabilities9.4Â 8.9Â Total current
liabilities$74.8Â $64.8Â Non-current liabilitiesLong-term debt$74.0Â $67.6Â Pensions and other retirement benefitsâ€”Â 0.1Â Deferred tax liabilities10.2Â 10.2Â Other non-current
liabilities14.5Â 16.8Â Total liabilities$173.5Â $159.5Â Commitments and contingencies (Note 16)Shareholders' equityOrdinary shares of Â£0.50 par value; authorized 40,000,000 shares for
2024 and 2023; issued and outstanding 28,944,000 for 2024 and 202326.5Â 26.5Â Additional paid-in capital224.2Â 223.5Â Treasury shares(23.6)(22.9)Company shares held by ESOP(0.8)
(0.9)Retained earnings99.5Â 104.3Â Accumulated other comprehensive loss(119.5)(117.9)Total shareholders' equity206.3Â 212.6Â Total liabilities and shareholders' equity$379.8Â $372.1Â See
accompanying notes to condensed consolidated financial statements3LUXFER HOLDINGSÂ PLCCONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS (UNAUDITED)Year-to-dateIn
millions20242023Operating activitiesNet income $2.2Â $5.2Â Net loss from discontinued operations0.2Â 0.2Â Net income from continuing operations2.4Â 5.4Â Adjustments to reconcile net
income to net cash provided / (used) by operating activities Â Â Â Depreciation4.5Â 6.2Â Â Â Â Amortization of purchased intangible assets0.4Â 0.4Â Â Â Â Amortization of debt issuance
costs0.1Â 0.2Â Â Â Â Share-based compensation charges1.4Â 1.3Â Â Â Â Deferred income taxes0.3Â 1.5Â Â Â Â Asset impairment chargesâ€”Â 2.3Â Â Â Â Loss on held for sale asset
group7.5Â â€”Â Â Â Â Defined benefit pension (credit) / charge(0.5)8.3Â Â Â Â Defined benefit pension contributionsâ€”Â (2.1)Changes in assets and liabilitiesÂ Â Â Accounts and other
receivables(7.9)3.8Â Â Â Â Inventories(7.5)(6.4)Â Â Â Current assets held-for-sale(2.5)1.2Â Â Â Â Accounts payable2.4Â (9.1)Â Â Â Accrued liabilities3.5Â (5.9)Â Â Â Current liabilities held-for-
sale2.0Â (1.5)Â Â Â Other current liabilities5.8Â (7.4)Â Â Â Other non-current assets and liabilities0.6Â 0.5Â Net cash provided / (used) by operating activities - continuing12.5Â (1.3)Net cash
provided by operating activities - discontinued0.1Â 0.1Â Net cash provided / (used) by operating activities12.6Â (1.2)Investing activitiesCapital expenditures(4.1)(4.9)Net cash used by investing
activities - continuing(4.1)(4.9)Net cash used by investing activities - discontinued(0.1)(0.1)Net cash used by investing activities(4.2)(5.0)Financing activitiesNet repayment of short-term
borrowings(4.4)(25.0)Net drawdown of long-term borrowings6.4Â 35.1Â Repurchase of own shares(1.0)(1.6)Share-based compensation cash paid(0.3)(0.3)Dividends paid(7.0)(7.0)Net cash
(used) / provided by financing activities(6.3)1.2Â Effect of exchange rate changes on cash and cash equivalents(0.1)0.3Â Net increase / (decrease)$2.0Â $(4.7)Cash, cash equivalents and
restricted cash; beginning of year2.6Â 12.9Â Cash, cash equivalents and restricted cash; end of the second quarter4.6Â 8.2Â Supplemental cash flow information:Interest
payments$2.8Â $2.8Â Income tax payments, net0.3Â 2.8Â See accompanying notes to condensed consolidated financial statements4LUXFER HOLDINGSÂ PLCCONDENSED CONSOLIDATED
STATEMENTS OF CHANGES IN EQUITY (UNAUDITED)In millions, OrdinarysharesAdditional paid-in capitalTreasury shares NumberTreasury shares AmountOwn shares held by ESOP
NumberOwn shares held by ESOP AmountRetainedearningsAccumulated other comprehensive lossTotalequityAt January 1, 2024$26.5Â $223.5Â (1.5)$(22.9)
(0.6)(0.9)104.3Â (117.9)212.6Â Net incomeâ€”Â â€”Â â€”Â â€”Â â€”Â â€”Â 2.7Â â€”Â 2.7Â Other comprehensive loss, net of taxâ€”Â â€”Â â€”Â â€”Â â€”Â â€”Â â€”Â (1.5)(1.5)Dividends
declaredâ€”Â â€”Â â€”Â â€”Â â€”Â â€”Â (3.5)â€”Â (3.5)Share-based compensationâ€”Â 0.6Â â€”Â â€”Â â€”Â â€”Â â€”Â â€”Â 0.6Â Share
buybackâ€”Â â€”Â â€”Â (0.4)â€”Â â€”Â â€”Â â€”Â (0.4)Utilization of shares from ESOP to satisfy share based compensationâ€”Â (0.2)â€”Â â€”Â â€”Â â€”Â â€”Â â€”Â (0.2)At March 31,
202426.5Â 223.9Â (1.5)(23.3)(0.6)(0.9)103.5Â (119.4)210.3Â Net lossâ€”Â â€”Â â€”Â â€”Â â€”Â â€”Â (0.5)â€”Â (0.5)Other comprehensive loss, net of
taxâ€”Â â€”Â â€”Â â€”Â â€”Â â€”Â â€”Â (0.1)(0.1)Dividends declaredâ€”Â â€”Â â€”Â â€”Â â€”Â â€”Â (3.5)â€”Â (3.5)Share based
compensationâ€”Â 0.8Â â€”Â â€”Â â€”Â â€”Â â€”Â â€”Â 0.8Â Share buybackâ€”Â â€”Â (0.1)(0.6)â€”Â â€”Â â€”Â â€”Â (0.6)Utilization of treasury shares to satisfy share based
compensationâ€”Â (0.3)â€”Â 0.3Â â€”Â â€”Â â€”Â â€”Â â€”Â Utilization of shares from ESOP to satisfy share based compensationâ€”Â (0.2)â€”Â â€”Â â€”Â 0.1Â â€”Â â€”Â (0.1)At June 30,
202426.5Â 224.2Â (1.6)(23.6)(0.6)(0.8)99.5Â (119.5)206.3Â See accompanying notes to condensed consolidated financial statements5LUXFER HOLDINGSÂ PLCCONDENSED CONSOLIDATED
STATEMENTS OF CHANGES IN EQUITY (UNAUDITED)In millions,Ordinary sharesAdditional paid-in capitalTreasury shares NumberTreasury shares AmountOwn shares held by ESOP
NumberOwn shares held by ESOP AmountRetained earningsAccumulated other comprehensive lossTotal equityAt January 1, 2023$26.5Â $221.4Â (1.3)$(20.4)
(0.7)(1.0)120.2Â (139.4)207.3Â Net income â€”Â â€”Â â€”Â â€”Â â€”Â â€”Â 0.5Â â€”Â 0.5Â Other comprehensive loss, net of
taxâ€”Â â€”Â â€”Â â€”Â â€”Â â€”Â â€”Â 10.2Â 10.2Â Dividends declaredâ€”Â â€”Â â€”Â â€”Â â€”Â â€”Â (3.5)â€”Â (3.5)Share based
compensationâ€”Â 0.6Â â€”Â â€”Â â€”Â â€”Â â€”Â â€”Â 0.6Â Share buybackâ€”Â â€”Â (0.1)(0.8)â€”Â â€”Â â€”Â â€”Â (0.8)Utilization of shares from ESOP to satisfy share based
compensationâ€”Â (0.3)â€”Â â€”Â â€”Â â€”Â â€”Â â€”Â (0.3)At April, 2023$26.5Â $221.7Â (1.4)$(21.2)(0.7)(1.0)117.2Â (129.2)214.0Â Net income
â€”Â â€”Â â€”Â â€”Â â€”Â â€”Â 4.7Â â€”Â 4.7Â Other comprehensive loss, net of taxâ€”Â â€”Â â€”Â â€”Â â€”Â â€”Â â€”Â 3.6Â 3.6Â Dividends
declaredâ€”Â â€”Â â€”Â â€”Â â€”Â â€”Â (7.0)â€”Â (7.0)Share based compensationâ€”Â 0.7Â â€”Â â€”Â â€”Â â€”Â â€”Â â€”Â 0.7Â Share
buybackâ€”Â â€”Â â€”Â (0.8)â€”Â â€”Â â€”Â â€”Â (0.8)Utilization of treasury shares to satisfy share based compensationâ€”Â (0.3)â€”Â 0.2Â â€”Â â€”Â â€”Â â€”Â (0.1)Utilization of shares
from ESOP to satisfy share based compensationâ€”Â â€”Â â€”Â â€”Â 0.1Â 0.1Â â€”Â â€”Â 0.1Â At July 2, 2023$26.5Â $222.1Â (1.4)$(21.8)(0.6)(0.9)114.9Â (125.6)215.2Â See
accompanying notes to condensed consolidated financial statements6LUXFER HOLDINGSÂ PLCNOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS
(UNAUDITED)1.Â Â Â Â Basis of Presentation and Responsibility for interim Financial StatementsWe prepared the accompanying unaudited condensed consolidated financial statements of
Luxfer Holdings PLC and all wholly-owned, majority owned or otherwise controlled subsidiaries on the same basis as our annual audited financial statements. We condensed or omitted certain
information and footnote disclosures normally included in our annual audited financial statements, which we prepared in accordance with U.S. Generally Accepted Accounting Principles

(GAAP). Our quarterly financial statements should be read in conjunction with our Annual Report on Form 10-K for the year ended DecemberÂ 31, 2023. As used in this report, the terms "we," "us," "our," "Luxfer" and "the Company" mean Luxfer Holdings PLC and its subsidiaries, unless the context indicates another meaning.In the opinion of management, our financial statements reflect all adjustments, which are only of a normal recurring nature, necessary for the fair statement of financial statements for interim periods in accordance with U.S. GAAP and with the instructions to Form 10-Q in Article 10 of Securities and Exchange Commission (SEC) Regulation S-X. The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions about future events that affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities at the date of our financial statements and the reported amounts of revenue and expenses during the reporting periods. Actual results could differ from those estimates, and any such differences may be material to our financial statements.Our fiscal year ends on December 31. We report our interim quarterly periods on a 13-week quarter basis, ending on a Sunday. The Second Quarter 2024, ended on JuneÂ 30, 2024, and the Second Quarter 2023, ended on JulyÂ 2, 2023. Accounting standards issued but not yet effectiveIn November 2023, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") 2023-07, Segment Reporting (Topic 280): Improvements to Reportable Segment Disclosures, to improve reportable segment disclosure requirements. The new guidance requires disclosure of significant segment expenses that are regularly provided to the chief operating decision maker and included in the reported measure of segment profit or loss. It does not change the definition of a segment or the guidance for determining reportable segments. The new guidance is effective for the Company in the annual period beginning January 1, 2024 and in 2025 for interim periods. Adoption of this ASU will result in additional disclosure, but it will not impact the Companyâ€™s consolidated financial position, results of operations or cash flows.In December 2023, the Financial Accounting Standards Board (â€œFASBâ€) issued Accounting Standards Update (â€œASUâ€) 2023-09, Improvements to Income Tax Disclosures, which enhances the transparency of income tax disclosures in ASC 740, Income Taxes, primarily related to rate reconciliation and income taxes paid information. The ASU is effective for fiscal years beginning after December 15, 2024 and early adoption is permitted. The Company is currently assessing the impact on its Consolidated Condensed Financial Statements and related disclosures.72.Â Â Â Â Earnings per shareBasic earnings per share are computed by dividing net income or loss for the period by the weighted-average number of ordinary shares outstanding, net of treasury shares and shares held in ESOP. Diluted earnings per share are computed by dividing net income for the period by the weighted average number of ordinary shares outstanding and the dilutive ordinary shares equivalents. Basic and diluted earnings per share were calculated as follows:Second QuarterYear-to-dateIn millions except share and per-share data2024202320242023Basic (loss) / earnings:Net (loss) / income from continuing operations(0.4)4.9Â $2.4Â $5.4Â Net loss from discontinued operations(0.1)(0.2)(0.2)(0.2)Net (loss) / income(0.5)4.7Â $2.2Â $5.2Â Weighted average number of Â£0.50 ordinary shares:For basic earnings per share26,831,372Â 26,923,804Â 26,826,123Â 26,922,528Â Dilutive effect of potential common stock100,919Â 141,534Â 66,107Â 161,458Â For diluted earnings per share26,932,291Â 27,065,338Â 26,892,230Â 27,083,986Â (Loss) / earnings per share using weighted average number of ordinary shares outstanding(1):Basic (loss) / earnings per ordinary share for continuing operations(0.01)0.18Â $0.09Â $0.20Â Basic loss per ordinary share for discontinued operations(0.01)(0.01)(0.01)(0.01)Basic (loss) / earnings per ordinary share(0.02)0.17Â $0.08Â $0.19Â Diluted (loss) / earnings per ordinary share for continuing operations(0.01)0.18Â $0.09Â $0.20Â Diluted loss per ordinary share for discontinued operationsâ€”Â (0.01)(0.01)(0.01)Diluted (loss) / earnings per ordinary share(0.02)0.17Â $0.08Â $0.19Â (1) The calculation of earnings per share is performed separately for continuing and discontinued operations. As a result, the sum of the two in any particular period may not equal the earnings-per-share amount in totalBasic average shares outstanding and diluted average shares outstanding were the same for discontinued operations because the effect of potential shares of common stock was anti-dilutive since the Company generated a net loss from discontinued operations.83.Â Â Â Â Net SalesDisaggregated sales disclosures for the second quarter and year-to-date ended JuneÂ 30, 2024, and JulyÂ 2, 2023, are included below and in Note 15, Segmental Information. Second Quarter20242023In millionsGas CylindersElektronGraphic ArtsTotalGas CylindersElektronGraphic ArtsTotalDefense, First Response & Healthcare$24.6Â $17.9Â $â€”Â $42.5Â $20.9Â $26.8Â $â€”Â $47.7Â Transportation17.2Â 11.1Â â€”Â 28.3Â 18.6Â 12.9Â â€”Â 31.5Â General industrial8.0Â 13.0Â 7.9Â 28.9Â 9.0Â 13.3Â 8.9Â 31.2Â $49.8Â $42.0Â $7.9Â $99.7Â $48.5Â $53.0Â $8.9Â $110.4Â Year-to-date20242023In millionsGas CylindersElektronGraphic ArtsTotalGas CylindersElektronGraphic ArtsTotalDefense, First Response & Healthcare$45.2Â $31.8Â $â€”Â $77.0Â $39.0Â $50.9Â $â€”Â $89.9Â Transportation36.3Â 20.9Â â€”Â 57.2Â 32.5Â 25.7Â $â€”Â 58.2Â General industrial13.7Â 27.0Â 14.2Â 54.9Â 18.5Â 28.8Â $16.3Â 63.6Â $95.2Â $79.7Â $14.2Â $189.1Â $90.0Â $105.4Â $16.3Â $211.7Â The Companyâ€™s performance obligations are satisfied at a point in time. With the reclassification of our Superform business as discontinued operations, none of the Company's revenue from continuing operations is satisfied over time. As a result, the Company's contract receivables, contract assets and contract liabilities are included within current assets and liabilities held-for-sale. 94.Â Â Â Â RestructuringThe $1.1 million and $1.8 million restructuring charge in the second quarter and first six months, respectively, of 2024 predominantly relates to continued costs aimed at reducing our fixed cost structure and realigning our business.The $2.5 million and $2.8 million restructuring charge in the second quarter and first half, respectively, of 2023 relates predominantly to asset impairments in relation to rationalization of our North American Gas Cylinders businesses to reduce our fixed cost base. This amounted to $2.3Â million in both the second quarter and first half of the year respectively. There was an additional $0.1Â million and $0.4Â million of other expenses in the second quarter and first half respectively, in relation to the aforementioned rationalization.Restructuring-related costs by reportable segment were as follows:Second QuarterYear-to-dateIn millions2024202320242023Severance and other costsGas Cylinders $1.1Â $0.2Â $1.6Â $0.5Â Elektron â€”Â â€”Â 0.2Â â€”Â $1.1Â $0.2Â $1.8Â $0.5Â Asset impairmentsGas Cylinders$â€”Â $2.3Â $â€”Â $2.3Â Total restructuring charges$1.1Â $2.5Â $1.8Â $2.8Â Activity related to restructuring, recorded in Other current liabilities in the consolidated balance sheets is summarized as follows:In millions2024Balance at January 1,$3.3Â Costs incurred1.8Â Cash payments and other(1.9)Balance at June 30,$3.2Â 5.Â Â Â Â Other incomeIn December 2023, it was established that any potential liability arising from the lawsuits and reasonable defense costs related to the previously disclosed US Ecology case are covered by insurance. The Company recognized $5.1Â million and $5.3 million in the second quarter and first half, respectively, of 2024, in relation to these costs previously incurred by the Company. The Company received $4.5Â million in the first half of 2024 with a further $0.8 million confirmed in June 2024 and received in July 2024.The Company is still in negotiations with the insurance company with regard to final payment of previously-paid litigation costs. We are unable to reliably estimate the recoverable amount, and given the uncertainty, we have not recognized anything additional to amounts received.106.Â Â Â Â Income Taxes We manage our affairs so that we are centrally managed and controlled in the United Kingdom (â€œU.K.â€) and therefore have our tax residency in the U.K. The provision for income taxes consists of provisions for the U.K. and international income taxes. We operate in an international environment with operations in various locations outside the U.K. Accordingly, the consolidated income tax rate is a composite rate reflecting the earnings in the various locations and the applicable rates. The effective income tax rate on continuing operations for the first half ended JuneÂ 30, 2024, was a 63.1%, tax charge compared to a 50.0% credit for the first half ended JulyÂ 2, 2023. The rate was impacted by non-deductible expenses and the loss on held-for-sale asset group. 2023 was also impacted by a deferred tax credit primarily in relation to the U.S. pension buyout..7.Â Â Â Â Acquisition and disposal related costsSecond QuarterYear-to-dateIn millions2024202320242023Loss on held-for-sale asset group$7.5Â $â€”Â $7.5Â $â€”Â Disposal related costs1.7Â â€”Â 1.9Â â€”Â $9.2Â $â€”Â $9.4Â $â€”Â The $7.5 million loss on held-for-sale asset group relates to the Graphic Arts' assets which have been revalued to the expected consideration the Company will receive.Disposal-related costs of $1.7 million and $1.9 million in the second quarter and first half of 2024, respectively, represent professional fees incurred and accrued in relation to the planned divestiture of the Graphic Arts segment.118.Â Â Â Â Supplementary balance sheet informationJune 30,December 31,In millions20242023Accounts and other receivablesTrade receivables$53.7Â $52.3Â Related parties0.1Â 0.1Prepayments and accrued income4.15.7Derivative financial instrumentsâ€”0.4Other receivables3.01.4Total accounts and other receivables$60.9Â $59.9Â InventoriesRaw materials and supplies$32.4Â $34.7Â Work-in-process27.8Â 34.8Â Finished goods28.0Â 26.4Â Total inventories$88.2Â $95.9Â Other current assetsIncome tax receivable1.5Â 1.5Â Total other current assets$1.5Â $1.5Â Property, plant and equipment, netLand, buildings and leasehold improvements$51.9Â $51.0Â Machinery and equipment238.4Â 234.9Â Construction in progress11.6Â 13.6Â Total property, plant and equipment301.9Â 299.5Â Accumulated depreciation and impairment(238.8)(235.7)Total property, plant and equipment, net$63.1Â $63.8Â Current maturities of long-term debt and short-term borrowingsOverdrafts0.2Â 4.6Â Total current maturities of long-term debt and short-term borrowings$0.2Â $4.6Â Other current liabilitiesRestructuring provision$3.2Â $3.3Â Short term provision0.1Â 0.1Â Derivative financial instruments0.2Â â€”Â Operating lease liability4.0Â 4.7Â Advance payments1.9Â 0.8Â Total other current liabilities$9.4Â $8.9Â Other non-current liabilitiesContingent liabilities$1.8Â $1.6Â Operating lease liability12.7Â 15.0Â Other non-current liabilitiesâ€”Â 0.2Â Total other non-current liabilities$14.5Â $16.8Â 129. Â Â Â Â Goodwill and other identifiable intangible assetsChanges in goodwill during the first half ended JuneÂ 30, 2024, were as follows:In millionsGas CylindersElektronTotalAt January 1, 2024$26.2Â $41.3Â $67.5Â Exchange difference(0.2)(0.1)(0.3)Net balance at June 30, 2024$26.0Â $41.2Â $67.2Â Accumulated goodwill impairment losses in relation to continuing activities were $8.0Â million as of JuneÂ 30, 2024 and DecemberÂ 31, 2023.Identifiable intangible assets consisted of the following:In millionsCustomer relationshipsTechnology and trading relatedTotalCost:Â Â At January 1 and June 30, 2024$15.2Â $7.8Â $23.0Â Accumulated amortization:Â Â At January 1, 2024$6.6Â $4.4Â $11.0Â Charge0.2Â 0.2Â 0.4Â At June 30, 2024$6.8Â $4.6Â $11.4Â Net book values:Â Â At January 1, 2024$8.6Â $3.4Â $12.0Â At June 30, 2024$8.4Â $3.2Â $11.6Â Identifiable intangible asset amortization expense was $0.4Â million and $0.4Â million for the first half of 2024 and 2023 respectively.Intangible asset amortization expense during each of the following five years is expected to be approximately $0.8 million per year.10.Â Â Â Â DebtDebt outstanding was as follows:June 30,December 31,In millions202420234.94% Loan Notes due 2026$25.0Â $25.0Â Revolving credit facility49.3Â 43.1Â Bank overdraft0.2Â 4.6Â Unamortized debt issuance costs(0.3)(0.5)Total debt74.2Â 72.2Â Less current portion(0.2)(4.6)Non-current debt$74.0Â $67.6Â The weighted-average interest rate on the revolving credit facility was 7.80% for the first half of the year and 7.70% for the full-year 2023.1310.Â Â Â Â Debt (continued)Loan notes due and shelf facilityThe Note Purchase Agreement and Private Shelf Agreement requires us to maintain compliance with a minimum interest coverage ratio and a leverage ratio. We have been in compliance with the covenants under the Note Purchase and Private Shelf Agreement throughout all of the quarterly measurement dates from and including SeptemberÂ 30, 2014, to JuneÂ 30, 2024.The Loan Notes due 2026, the Shelf Facility and the Note Purchase and Private Shelf Agreement are governed by the law of the State of New York.Senior Facilities AgreementDuring the first half of 2024, we drew down net $6.4 million on the Revolving Credit Facility and the balance outstanding at JuneÂ 30, 2024, was $49.3 million, and at DecemberÂ 31, 2023, was $43.1 million, with $75.7 million undrawn at JuneÂ 30, 2024. We have been in compliance with the covenants under the Senior Facilities Agreement throughout all of the quarterly measurement dates from and including SeptemberÂ 30, 2011 to JuneÂ 30, 2024.Bank OverdraftThe bank overdraft is an uncommitted facility with no expiration date, this is reviewed annually and can be cancelled by either the bank or the Company on demand.11.Â Â Â Â Discontinued OperationsOur Superform aluminum superplastic forming business operating in the U.S. was historically included in the Gas Cylinders segment. As a result of our decision to exit non-strategic aluminum product lines, we have reflected the results of operations of this business as discontinued operations in the Condensed Consolidated Statements of Income for all periods presented. We expect the sale of our Superform business to occur in 2024.The assets and liabilities of the Superform business have been presented within assets held-for-sale and liabilities held-for-sale in the consolidated balance sheets for 2024 and 2023. Results of discontinued operations in the first six months of 2024 and 2023 were as follows:Second QuarterYear-to-dateIn millions2024202320242023Net sales$1.6Â $1.9Â $3.1Â $4.2Â Cost of goods sold(1.4)(1.7)(2.5)(3.6)Gross profit0.2Â 0.2Â 0.6Â 0.6Â Selling, general and administrative expenses(0.4)(0.4)(0.8)(0.7)Restructuring chargeâ€”Â (0.1)(0.1)(0.2)Operating loss(0.2)(0.3)(0.3)(0.3)Tax credit0.1Â 0.1Â 0.1Â 0.1Â Net loss(0.1)(0.2)(0.2)(0.2)1411.Â Â Â Â Discontinued Operations (continued)The assets and liabilities classified as held-for-sale related to discontinued operations were as follows:Held-for-sale assets June 30,December 31,In millions20242023Inventory$3.7Â $3.3Â Accounts and other receivables2.1Â 2.3Â Current assets5.8Â 5.6Â Right-of-use-assets1.7Â 2.1Â Held-for-sale assets$7.5Â $7.7Â Held-for-sale liabilitiesAccounts payable$0.7Â $0.9Â Accrued liabilities0.3Â 0.4Â Other liabilities2.4Â 2.6Â Held-for-sale liabilities$3.4Â $3.9Â There was $0.1m of capital expenditure in the second half of 2024 (2023: none), there was no depreciation and amortization or any other significant non-cash items. 12.Â Â Â Â Held-for-sale assets and liabilitiesThe total assets and liabilities classified as held-for-sale, including those that qualify as discontinued operations are as follows:Held-for-sale assets June 30,December 31,In millions20242023Inventory$12.3Â $3.3Â Accounts and other receivables8.2Â 2.3Â Current assets20.5Â 5.6Â Property, plant and equipment1.2Â 1.2Â Right-of-use-assets1.7Â 2.1Â Non-current assets2.9Â 3.3Â Total held-for-sale assets$23.4Â $8.9Â Held-for-sale liabilitiesAccounts payable2.9Â 0.9Â Accrued liabilities2.9Â 0.4Â Other liabilities3.6Â 2.6Â Held-for-sale liabilities$9.4Â $3.9Â As a result of the Companyâ€™s strategic review process announced in October 2023, the Company concluded that its Graphic Arts business no longer aligns with the Companyâ€™s overall business and value proposition. In 2024, the Company initiated a sale process for its Graphic Arts business with the intention of divesting this business in 2024.In the second quarter of 2024, the company recognized a $7.5Â million loss on held-for-sale asset group recognized in continuing operations, relating to our Graphic Arts segment to reflect the the fair value of Graphic Arts. A $1.4Â million accrual, also recognized within acquisition and disposal related costs in the Income Statement, has been recognized for expected costs in relation to professional fees in relation to the planned divestiture of the Graphic Arts segment.In accordance with ASC 205-20 and ASC 360-10, our Graphic Arts business is classified as held-for-sale at June 30, 2024, however the business does not meet the criteria to be classified as a discontinued operation. 1513.Â Â Â Â Share PlansTotal share-based compensation expense for the quarters ended June 30, 2024, and July 2, 2023, was as follows:Second QuarterYear-to-dateIn millions2024202320242023Total share-based compensation charges$0.8Â $0.7Â $1.4Â $1.3Â In March 2024, we issued our annual share-based compensation grants under the Luxfer Holdings PLC Long-Term Umbrella Incentive Plan. The total number of awards issued was approximately 155,000 and the weighted average fair value of options granted in 2024 was estimated to be $10.44 per share.In June 2024, we issued our annual share-based compensation grants under the Luxfer Holdings PLC Non-Executive Directors' Equity Incentive Plan. The total number of awards issued was 47,012 and the weighted-average fair value of options granted was estimated to be $10.53 per share.The following table illustrates the assumptions used in deriving the fair value of share options granted during 2024 and the year-ended DecemberÂ 31, 2023:20242023Dividend yield (%)3.15 - 3.323.15 - 3.32Expected volatility range (%)31.54 - 43.4931.54 - 43.49Risk-free interest rate (%)3.67 - 5.163.67 - 5.16Expected life of share options range (years)1.00 - 4.001.00 - 4.00Forfeiture rate (%)5.00Â 5.00Â Weighted average exercise price ($)$1.00$1.00Model usedBlack-Scholes & Monte-CarloBlack-Scholes & Monte-CarloThe expected life of the share options is based on historical data and current expectations, and is not necessarily indicative of exercise patterns that may occur. The expected volatility reflects the assumption that the historical volatility over a period similar to the life of the options is indicative of future trends, which may not necessarily be the actual outcome.14.Â Â Â Â Shareholders' EquityDividends paid and proposedSecond QuarterYear-to-dateIn millions2024202320242023Dividends declared and paid / accrued during the year:Interim dividend declared January 3, 2023 and paid February 1, 2023 ($0.130 per ordinary share)$â€”Â $â€”Â $â€”Â $3.5Â Interim dividend declared April 3, 2023 and paid May 3, 2023 ($0.130 per ordinary share)â€”Â 3.5Â â€”Â 3.5Â Interim dividend declared June 29, 2023 and paid August 2, 2023 ($0.130 per ordinary share)â€”Â 3.5Â â€”Â 3.5Â Interim dividend declared January 19, 2024 and paid February 7, 2024 ($0.130 per ordinary share)â€”Â â€”Â 3.5Â â€”Â Interim dividend declared April 9, 2024 and paid May 8, 2024 ($0.130 per ordinary share)3.5Â â€”Â 3.5Â â€”Â $3.5Â $7.0Â $7.0Â $10.5Â In millions20242023Dividends declared and paid after the quarter end (not recognized as a liability at the quarter end):Interim dividend declared July 8, 2024 and paid August 7, 2024 ($0.130 per ordinary share)$3.5Â $â€”Â $3.5Â $â€”Â 1615.Â Â Â Â Segmental InformationWe classify our operations into business segments, based primarily on shared economic characteristics for the nature of the products and services; the nature of the production processes; the type or class of customer for their products and services; the methods used to distribute their products or provide their services; and the nature of the regulatory environment. The Company has five identified business units, which aggregate into three reportable segments within continuing operations, and one within discontinued operations. Luxfer Gas Cylinders forms the Gas Cylinders segment, and Luxfer MEL Technologies and Luxfer Magtech aggregate into the Elektron segment. As of December 31, 2023, it was determined that the Luxfer Graphic Arts reporting segment no longer met the criteria, specifically, similar economic characteristics, to be aggregated within the Elektron segment for 2023. As a result, Luxfer Graphic Arts has been disaggregated from the Elektron segment and is being reported separately as the Graphic Arts segment. The Elektron segment's results for 2023 have been adjusted to exclude Graphic Arts' results. Our Superform business unit used to aggregate into the Gas Cylinders segment but is now recognized within discontinued operations. A summary of the operations of the segments within continuing operations is provided below:Gas Cylinders segmentOur Gas Cylinders segment manufactures and markets specialized highly-engineered cylinders, using composites and aluminum alloys, including pressurized cylinders for use in various applications including self-contained breathing apparatus ('SCBA') for firefighters, containment of oxygen and other medical gases for healthcare, alternative fuel ('AF') vehicles, and general industrial applications. Elektron segmentÂ Our Elektron segment focuses on specialty materials based primarily on magnesium and zirconium, with key product lines including advanced lightweight magnesium alloys with a variety of uses across a variety of industries; magnesium powders for use in countermeasure flares, as well as heater meals; and high-performance zirconium-based materials and oxides used as catalysts and in the manufacture of advances ceramics, fiber-optic fuel cells, and many other performance products.Graphic Arts segmentOur Graphic Arts segment provides a full range of pre-sensitized magnesium, copper and zinc plates, along with associated chemicals, for the production of foil-stamping and embossing dies. In addition, non-sensitized polished brass and magnesium plates are also manufactured for computer numerical control ('CNC') engraving. The segment also advises on turnkey engraving operations, complete with etching machines, computer-to-plate ('CtP') machines, exposure units and film setters.OtherOther, as used below, primarily represents unallocated corporate expense and includes non-service related defined benefit pension credit / charge.Management monitors the operating results of its reportable segments separately for the purpose of making decisions about resource allocation and performance assessment. Segment performance is evaluated by the chief operating decision maker, the CEO, who is responsible for allocating resources and assessing performance of the operating segments, using adjusted EBITA(1) and adjusted EBITDA, which is defined as segment income, and is based on operating income adjusted for share-based compensation charges; restructuring charges; acquisitions and disposals costs; and depreciation and amortization.Unallocated assets and liabilities include those which are held on behalf of the Company and cannot be allocated to a segment, such as taxation, investments, cash, retirement benefits obligations, bank and other loans and holding company assets and liabilities.Financial information by reportable segment for the Second Quarter and first half ended JuneÂ 30, 2024, and JulyÂ 2, 2023, is included in the following summary: Net salesAdjusted EBITDASecond QuarterYear-to-dateSecond QuarterYear-to-dateIn millions20242023202420232024202320242023Gas Cylinders segment$49.8Â $48.5Â $95.2Â $90.0Â $4.9Â $4.9Â $9.0Â $7.4Â Elektron segment42.0Â 53.0Â 79.7Â 105.4Â 12.4Â 9.5Â 18.8Â 19.0Â Graphic Arts segment7.9Â 8.9Â 14.2Â 16.3Â 0.1Â â€”Â (1.6)(0.7)Consolidated$99.7Â $110.4Â $189.1Â $211.7Â $17.4Â $14.4Â $26.2Â $25.7Â (1) Adjusted EBITA is adjusted EBITDA less depreciation and loss on disposal of property, plant and equipment.1715.Â Â Â Â Segmental Information (continued)Depreciation and amortizationRestructuring chargesSecond QuarterYear-to-dateSecond QuarterYear-to-dateIn millions20242023202420232024202320242023Gas Cylinders segment$0.9Â $1.0Â $1.7Â $2.1Â $1.1Â $2.5Â $1.6Â $2.8Â Elektron segment1.6Â 1.8Â 3.2Â 3.5Â â€”Â â€”Â 0.2Â â€”Â Graphic Arts segmentâ€”Â 0.5Â â€”Â 1.0Â â€”Â â€”Â â€”Â â€”Â Consolidated$2.5Â $3.3Â $4.9Â $6.6Â $1.1Â $2.5Â $1.8Â $2.8Â Total assetsCapital expendituresJune 30,December 31,Second QuarterYear-to-dateIn millions202420232024202320242023Gas Cylinders segment$136.7Â $131.0Â $1.3Â $0.3Â $2.1Â $0.6Â Elektron segment167.7Â 162.4Â 1.4Â 2.3Â 2.1Â 3.9Â Graphic Arts segment14.7Â 19.6Â 0.1Â 0.4Â 0.1Â 0.5Â Other53.2Â 51.3Â â€”Â â€”Â â€”Â â€”Â Discontinued operations7.5Â 7.8Â â€”Â 0.2Â â€”Â 0.1Â Consolidated$379.8Â $372.1Â $2.8Â $3.2Â $4.3Â $5.1Â Property, plant and equipment, netJune 30,December 31,In millions20242023U.S.$26.8Â $26.8Â United Kingdom32.0Â 32.8Â Canada3.0Â 2.9Â Rest of Europe1.0Â 1.0Â Asia Pacific0.3Â 0.3Â $63.1Â $63.8Â The following table presents a reconciliation of Adjusted EBITDA to net income before income taxes, from continuing operations:Second QuarterYear-to-dateIn millions2024202320242023Adjusted EBITDA$17.4Â $14.4Â $26.2Â $25.7Â Other share-based compensation charges(0.8)(0.7)(1.4)(1.3)Depreciation and amortization(2.5)(3.3)(4.9)(6.6)Restructuring charges(1.1)(2.5)(1.8)(2.8)Acquisition and disposal related costs(9.2)â€”Â (9.4)â€”Â Defined benefits pension credit / (charge)0.2Â 0.6Â 0.5Â (8.3)Interest expense, net(1.3)(1.8)(2.7)(3.1)Net income before income taxes from continuing operations$2.7Â $6.7Â $6.5Â $3.6Â 1815.Â Â Â Â Segmental Information (continued)The following tables present certain geographic information by geographic region for the Second Quarter ended JuneÂ 30, 2024, and JulyÂ 2, 2023:Net Sales(1)Second QuarterYear-to-date2024202320242023$MPercent$MPercent$MPercent$MPercentUnited States$57.3Â 57.6Â %$67.8Â 61.5Â %$110.5Â 58.4Â %$125.5Â 59.3Â %Germany7.2Â 7.2Â %3.8Â 3.4Â %12.6Â 6.7Â %10.1Â 4.8Â %United Kingdom6.3Â 6.3Â %5.2Â 4.7Â %10.6Â 5.6Â %10.8Â 5.1Â %Japan5.0Â 5.0Â %6.3Â 5.7Â %9.0Â 4.8Â %10.8Â 5.1Â %Canada2.8Â 2.8Â %3.4Â 3.1Â %6.5Â 3.4Â %5.2Â 2.5Â %Top five countries78.6Â 78.9Â %86.5Â 78.4Â %149.2Â 78.9Â %162.4Â 76.7Â %Rest of Europe12.3Â 12.3Â %11.7Â 10.6Â %24.4Â 13.0Â %24.7Â 11.7Â %Asia Pacific6.7Â 6.7Â %8.3Â 7.5Â %10.3Â 5.4Â %17.3Â 8.2Â %Other (2)2.1Â 2.1Â %3.9Â 3.5Â %5.2Â 2.7Â %7.3Â 3.4Â %$99.7Â $110.4Â $189.1Â $211.7Â (1) Net sales are based on the geographic destination of sale.(2) Other includes South America, Latin America and Africa.1916.Â Â Â Â Commitments and ContingenciesCommitted and uncommitted banking facilitiesThe Company had committed banking facilities of $125.0Â million at June 30, 2024 and December 31, 2023. Of these committed facilities, $49.3Â million was drawn at June 30, 2024 and $43.1Â million at December 31, 2023. The Company also had an additional $25.0Â million of uncommitted facilities through an accordion provision at June 30, 2024 and December 31, 2023.Uncommitted FacilitiesJune 30, 2024December 31, 2023FacilityDrawnFacilityDrawnBond and Guarantees$0.6Â $0.1Â $0.6Â $0.2Â Letters of Credit$4.0Â $2.2Â $4.0Â $2.2Â Overdraft$7.8Â $0.2Â $7.8Â $4.6Â $12.4Â $2.5Â $12.4Â $7.0Â ContingenciesIn November 2018, an alleged explosion occurred at a third-party waste disposal and treatment site in Grand View, Idaho, reportedly causing property damage, personal injury, and one fatality. The Company had contracted with a service company for removal and disposal of certain waste resulting from the magnesium powder manufacturing operations at the Reade facility in Manchester, New Jersey. The Company believes this service company, in turn, contracted with the third-party disposal company, at whose facility the explosion occurred, for treatment and disposal of the waste. In November 2020, we were named as a defendant in three lawsuits in relation to the incident â€“ one by the third-party disposal company, one by the estate of the decedent, and one by an injured employee of the third-party disposal company. The three lawsuits were administratively consolidated and, to date, two lawsuits remain ongoing. The Company believes that we are not liable for the incident, have asserted such, and, in conjunction with our insurers, continue to fully defend the Company against these lawsuits. Therefore, we do not currently expect any eventual outcome in these matters to have a material impact on the Company's financial position or results of operations. In December 2023, it was established that any potential liability arising from the lawsuits and reasonable defense costs related to the previously disclosed US Ecology case are covered by insurance. The Company recognized $5.1Â million and $5.3 million in the second quarter and first half, respectively, of 2024, in relation to recovery of these costs previously incurred by the Company. The Company received $4.5 million in the first half of 2024 with a further $0.8 million received in July 2024.The Company are still in negotiations with the insurance company with regard to final payment of litigation costs. We are unable to reliably estimate the recoverable amount, and given the uncertainty, we have not recognized anything additional to amounts received.17. Pension SettlementIn the first quarter of 2023, there was a $9.2Â million charge in relation to the sale of the U.S. pension plan liability to an insurer, which included $2.3Â million cash and $6.9Â million in relation to the derecognition of the U.S. pension liability and reallocation of accumulated actuarial losses from other comprehensive income. This was partially offset by a $0.3Â million defined benefit credit on the U.K. pension plan.18. Subsequent EventsOther than those disclosed elsewhere in the note to the financial statements, no material subsequent events to report.20Item 2.Â Â Â Â Â Â Â Management's Discussion and Analysis of Financial Condition and Results of OperationsInformation regarding forward-looking statementsThis Interim Report on Form 10-Q contains certain statements, statistics and projections that are, or may be, forward-looking. These forward-looking statements are subject to known and unknown risks, uncertainties, assumptions and other factors that could cause our actual results of operations, financial condition, liquidity, performance, prospects, opportunities, achievements or industry results, as well as those of the markets we serve or intend to serve, to differ materially from those expressed in, or suggested by, these forward-looking statements. The accuracy and completeness of all such statements, including, without limitation, statements regarding our future financial position, strategy, plans and objectives for the management of future operations, is not warranted or guaranteed. These statements typically contain words such as "believes," "intends," "expects," "anticipates," "estimates," "may," "will," "should" and words of similar import. By their nature, forward-looking statements involve risk and uncertainty because they relate to events and depend on circumstances that will occur in the future. We undertake no obligation to update any forward-looking statements, whether as a result of new information, future events or otherwise. Although we believe that the expectations reflected in such statements are reasonable, no assurance can be given that such expectations will prove to be correct. There are a number of factors that could cause actual results and developments to differ materially from those expressed or implied by such forward-looking statements. These factors include, but are not limited to, factors identified in "Business," "Risk factors," and "Management's Discussion and Analysis of Financial Condition and Results of Operations," or elsewhere in this Interim Report, as well as:â€¢general economic conditions, or conditions affecting demand for the services offered by us in the markets in which we operate, both domestically and internationally, being less favorable than expected;â€¢worldwide economic and business conditions and conditions in the industries in which we operate;â€¢our ability to execute a turnaround plan in our Graphic Arts business to safeguard revenues and reduce costs;â€¢post-pandemic impact of COVID-19 and future pandemics;â€¢fluctuations in the cost and / or availability of raw materials, labor and energy, as well as our ability to pass on cost increases to customers;â€¢currency fluctuations and other financial risks;â€¢our ability to protect our intellectual property;â€¢the amount of indebtedness we have incurred and may incur, and the obligations to service such indebtedness and to comply with the covenants contained therein;â€¢relationships with our customers and suppliers;â€¢increased competition from other companies in the industries in which we operate;â€¢changing technology;â€¢our ability to execute and integrate new acquisitions;â€¢claims for personal injury, death or property damage arising from the use of products produced by us;â€¢the occurrence of accidents or other interruptions to our production processes;â€¢changes in our business strategy or development plans, and our expected level of capital expenditure;â€¢our ability to attract and retain qualified personnel;â€¢restrictions on the ability of Luxfer Holdings PLC to receive dividends or loans from certain of its subsidiaries;â€¢climate change regulations and the potential impact on energy costs;â€¢regulatory, environmental, legislative and judicial developments; andâ€¢our intention to pay dividends.Please read the sections "Business" and "Risk factors" included within the 2023 Annual Report on Form 10-K and "Management's Discussion and Analysis of Financial Condition and Results of Operations," and "Risk factors" of this Interim Report on Form 10-Q for a more complete discussion of the factors that could affect our performance and the industries in which we operate, as well as those discussed in other documents we file or furnish with the SEC.21About Luxfer Luxfer Holdings PLC ("Luxfer," "the Company," "we," "our") is a global industrial company innovating niche applications in materials engineering. Luxfer focuses on value creation by using its broad array of technical know-how and proprietary technologies to help create a safe, clean and energy-efficient world. Luxfer's high performance materials, components and high-pressure gas containment devices are used in defense, first response and healthcare, transportation and general industrial applications. Luxfer is a global industrial company innovating niche applications in materials engineering. Luxfer focuses on value creation by using its broad array of technical know-how and proprietary technologies to help create a safe, clean and energy-efficient world. Luxfer's high-performance materials, components and high-pressure gas containment devices are used in defense, first response and healthcare, transportation and general industrial applications.Key trends and uncertainties regarding our existing businessUncertainty of demand in certain end-marketsMacro-economic conditions have continued to impact our general industrial end-market with demand softening for our products across all segments. We have also experienced variability of demand for certain products in our defense, first response & healthcare end-market, particularly defense applications, including countermeasure flares and flameless ration heaters. We have been able to navigate these challenges through productivity and cost management initiatives resulting in improved margins. Legal recoveries and inventory management contributed to solid cash conversion and reduced net debt levels.While the outlook remains uncertain there are some signs of recovery within the industrial and defense end-markets within our Elektron segment, which we are well-placed to capitalize on.Operating objectives and trendsIn 2024, we expect the following operating objectives and trends to impact our business:â€¢Addressing general macro uncertainty and building resilience into the outlook, especially in our General Industrial end-market;â€¢Execution of actions identified upon completion of the recently-announced expanded and accelerated strategic review, including the divestiture of Graphic Arts;â€¢Completion of long-term agreement renewals in Gas Cylinders enabling pass through of inflationary costs;â€¢Ongoing focus on cost control, new product launches and productivity improvements across the business;â€¢Execution of selected capital investment projects to support our strategy of profitable growth while maintaining our infrastructure;â€¢Continued emphasis on operating cash generation and maintaining strong working capital performance;â€¢Further improvements in ESG standing through focus on sustainability and on our values of teamworking and accountability; andâ€¢Focus on recruiting, developing and maintaining talent, including our new leadership development programs, while driving a high-performance culture.22CONSOLIDATED RESULTS OF OPERATIONSThe consolidated results of operations for the second quarter of 2024 and 2023 of Luxfer were as follows:Second Quarter% / point changeIn millions202420232024 v 2023Net sales$99.7Â $110.4Â (9.7)%Cost of goods sold(77.7)(86.2)(9.9)%Gross profit$22.0Â $24.2Â (9.1)%Â Â Â Â Â % of net sales22.1Â %21.9Â %0.2Â Selling, general and administrative expenses(11.9)(12.8)(7.0)%Â Â Â Â Â % of net sales11.9Â %11.6Â %0.3Â Research and development(1.1)(1.0)10.0Â %Â Â Â Â Â % of net sales1.1Â %0.9Â %0.2Â Restructuring charges(1.1)(2.5)(56.0)%Â Â Â Â Â % of net sales1.1Â %2.3Â %(1.2)Acquisition and disposal related costs(9.2)â€”Â n/aÂ Â Â Â Â % of net sales9.2Â %â€”Â %9.2Â Other income5.1Â â€”Â n/aÂ Â Â Â Â % of net sales(5.1)%â€”Â %(5.1)Operating income$3.8Â $7.9Â (51.9)%Â Â Â Â Â % of net sales3.8Â %7.2Â %(3.4)Net interest expense(1.3)(1.8)(27.8)%Â Â Â Â Â % of net sales1.3Â %1.6Â %(0.3)Defined benefit pension credit 0.2Â 0.6Â (66.7)%Â Â Â Â Â % of net sales0.2Â %0.5Â %(0.3)Income before income taxes$2.7Â $6.7Â (59.7)%Â Â Â Â Â % of net sales2.7Â %6.1Â %(3.4)Provision for income taxes(3.1)(1.8)72.2Â %Â Â Â Â Â Effective tax rate114.8Â %26.9Â %87.9Â Net (loss) / income from continuing activities(0.4)4.9Â (108.2)%Â Â Â Â Â % of net sales(0.4)%4.4Â %(4.8)23The consolidated results of operations for the first six months of 2024 and 2023 of Luxfer were as follows:Year-to-date% / point changeIn millions202420232024 v 2023Net sales$189.1Â $211.7Â (10.7)%Cost of goods sold(148.7)(166.4)(10.6)%Gross profit40.4Â 45.3Â (10.8)%% of net sales21.4Â %21.4Â %â€”Â Selling, general and administrative expenses(23.5)(25.3)(7.1)%% of net sales12.4Â %12.0Â %0.4Â Research and development(2.3)(2.2)4.5Â %% of net sales1.2Â %1.0Â %0.2Â Restructuring charges(1.8)(2.8)(35.7)%% of net sales1.0Â %1.3Â %(0.3)Acquisition and disposal related costs(9.4)â€”Â n/a% of net sales5.0Â %â€”Â %5.0Â Other income5.3Â â€”Â n/a% of net sales(2.8)%â€”Â %(2.8)Operating income$8.7Â $15.0Â (42.0)%% of net sales4.6Â %7.1Â %(2.5)Net interest expense(2.7)(3.1)(12.9)%% of net sales1.4Â %1.5Â %(0.1)Defined benefit pension credit / (charge)0.5Â (8.3)n/a% of net sales0.3Â %(3.9)%4.2Â Income from continuing operations$6.5Â $3.6Â 80.6Â %% of net sales3.4Â %1.7Â %1.7Â (Provision) / credit for income taxes(4.1)1.8Â n/aEffective tax rate63.1Â %(50.0)%n/aNet income from continuing operations$2.4Â $5.4Â (55.6)%% of net sales1.3Â %2.6Â %(1.3)24Net salesAdjusting for a foreign exchange headwind of $0.3 million and a tailwind of $0.4 million in the Second Quarter and first six months of 2024, respectively, net sales have decreased by 9.4% and 10.9% respectively. Revenue was negatively impacted in the quarter from:â€¢Decreased demand for photo-engraving plates, particularly outside the North American market due to competitive pressure from increased raw material costs;â€¢Subdued sales of magnesium alloys, especially those used in aerospace and automotive applications;â€¢Reduction in sales of magnesium powders for both commercial and military use; â€¢Significant decrease in MRE and chemical response kit sales in our Magtech division; and â€¢Lower sales for our AF cylinders, off the back of strong comparative performance, coupled with weaker demand for our industrial cylinders.These decreases were partially offset by:â€¢Increased sales of SCBA cylinders; â€¢Improved sales of SoluMagÂ® in the Oil and Gas industry; Further to the above, the first six months of the year were also affected by:â€¢Strong performance for our AF cylinders in the first quarter;Gross profitThe 0.2 percentage point increase in gross profit as a percentage of sales in the second quarter of 2024 from 2023 was primarily the result of contract renegotiation and manufacturing efficiencies having a positive impact on margins within the Gas Cylinders and Elektron Divisions respectively. This has been partially offset by adverse volume and mix. Gross profit as a percentage of sales for the first half of 2024 remained flat against the first half of 2023 with contract renegotiations and manufacturing efficiencies being offset by adverse volume and mix..Selling, general and administrative expenses ("SG&A")SG&A costs as a percentage of sales in 2024 from 2023 has increased by 0.3 percentage points and 0.4 percentage points in the quarter and first six months respectively, primarily due to reduced revenue. SG&A costs in the second quarter and first half of 2024 have actually decreased by 7.0% and 7.1%, respectively, compared to the same periods in 2023. The SG&A costs in 2023 included $1.2 million and $2.3 million, respectively, in legal fees which did not re-occur in 2024, these predominantly related to the case described in Note 16 - Commitments and Contingencies.Research and development costs Research and development costs as a percentage of sales increased by 0.2 percentage points in the second quarter and first six months of 2024 respectively. The slight increase is a result of the reduction in sales as absolute expenditures remained relatively flat.25Restructuring chargesThe $1.1 million and $1.8 million restructuring charge in the second quarter and first six months respectively of 2024 predominantly relates to the execution of cost savings initiatives affecting our North American Gas Cylinders business. This amounted to $0.6 million and $1.0 million in the second quarter and first six months of the year respectively. There was a further $0.5 million and $0.6 million in the second quarter and first six months of the year primarily relating to site clean-up costs associated with the closure of Luxfer Gas Cylinders France, which ceased operations in 2019. Additionally, there were clean-up costs of $0.2 million in the first six months of the year within our Elektron Division relating to the consolidation of production facilities in the Magnesium Powders operations.The $2.5 million and $2.8 million restructuring charge in the second quarter and first six months of 2023 relates predominantly to asset impairments in relation to rationalization of our North American Gas Cylinders businesses to reduce our fixed cost base. This amounted to $2.3 million in both the second quarter and first half of the year respectively. There was an additional $0.1 million and $0.4 million of other expenses in the second quarter and first half respectively, in relation to the aforementioned rationalization.Acquisition and disposal related costs Acquisition and disposal related costs of $9.2 million and $9.4 million in the second quarter and first six months respectively of 2024 were incurred in relation to the divestiture of our Graphic Arts segment. $7.5 million represents a loss on held-for-sale asset group and $1.7 million and $1.9 million respectively, represents professional fees incurred and accrued in relation to the planned divestiture of the Graphic Arts segment. No acquisition and disposal related costs were incurred during 2023. Other IncomeOther Income of $5.3 million and $5.1 million in the second quarter and first six months of 2024 relate to the recovery of legal costs from our insurer related to the previously disclosed US Ecology case.Net Interest ExpenseNet interest expense of $1.3 million in the Second Quarter of 2024 decreased 27.8% from $1.8 million in the Second Quarter of 2023, due to a decrease in drawings. Interest expense of $2.7 million in the first six months of 2024 was also lower than the $3.1 million in the first six months of 2023.Defined benefit pension creditThere was a defined benefit credit of $0.2 million and $0.5 million in the second quarter and first six months respectively for the U.K. plan, consistent with 2023. 2023 was also impacted by the sale of the U.S. pension plan liability to an insurer, which included $2.3 million cash and $6.9 million in relation to the derecognition of the U.S. pension liability and reallocation of accumulated actuarial losses from other comprehensive income. In the second quarter of 2023, we received a $0.2 million contribution refund, resulting in a net cash outflow of $2.1 million and a half year charge of $9.0 million.Provision for income taxesThe movement in the year to date statutory effective tax rate from negative 50.0% in 2023, to 63.1% in 2024, was primarily due to non-deductible expenses and deferred tax credit, predominantly in relation to the previously mentioned pension buy-out and impairment charges. When stripping out the impact of this, as well as other less significant adjusting items, the adjusted effective tax rate has increased to 23.7% in 2024 from 22.0% in 2023, largely as a result of the statutory tax rate increase in the U.K. from 19% to 25%, which came into effect in April 2023.26RECONCILIATION OF NON-GAAP FINANCIAL MEASURES TO GAAP MEASURESThe following tables of non-GAAP summary financial data presents a reconciliation of net income from continuing operations and diluted earnings per ordinary share from continuing operations to adjusted net income from continuing operations, adjusted EBITA from continuing operations, adjusted income from continuing operations before income taxes, adjusted EBITDA from continuing operations, adjusted earnings per ordinary share from continuing operations, adjusted provision for income taxes and adjusted effective tax rate from continuing operations, for the periods presented, being the most comparable GAAP measures. Management believes that adjusted net income, adjusted earnings per share, adjusted EBITA and adjusted EBITDA are key performance indicators ("KPIs") used by the investment community and that such presentation will enhance an investorâ€™s understanding of the Company's operational results. In addition, Luxfer's CEO and other senior management use these KPIs, among others, to evaluate business performance. However, investors should not consider adjusted net income from continuing operations, adjusted earnings per share from continuing operations, adjusted EBITA from continuing operations and adjusted EBITDA from continuing operations in isolation as an alternative to net income and earnings per share when evaluating Luxfer's operating performance or measuring Luxfer's profitability. In 2024, the Company initiated a process to divest the Graphic Arts business. While Graphic Arts does not meet the 'strategic shift' criteria outlined in ASC 205-20 for it to be classified as a discontinued operation, we believe that given the expectation that divestiture will be completed in the current year, it is appropriate in the the tables below to separate out the results of Graphic Arts in order to provide a more complete financial summary for the period.Second QuarterIn millions except per share data20242023Continuing operationsGraphic ArtsAdjusted TotalContinuing operationsGraphic ArtsAdjusted TotalNet (loss) / income(0.4)(9.0)$8.6Â $4.9Â (0.5)$5.4Â Accounting charges relating to acquisitions and disposals of businesses:Â Â Â Â Â Amortization on acquired intangibles0.2Â â€”Â 0.2Â 0.2Â â€”Â 0.2Â Â Â Â Â Â Acquisition and disposal related charge9.2Â 9.1Â 0.1Â â€”Â â€”Â â€”Â Defined benefit pension credit(0.2)â€”Â (0.2)(0.6)â€”Â (0.6)Restructuring charge1.1Â â€”Â 1.1Â 2.5Â â€”Â 2.5Â Share-based compensation charge0.8Â 0.1Â 0.7Â 0.7Â â€”Â 0.7Â Income tax on adjusted items(0.2)(0.1)(0.1)(0.3)â€”Â (0.3)Adjusted net income / (loss)$10.5Â $0.1Â $10.4Â $7.4Â (0.5)7.9Â Adjusted earnings / (loss) per ordinary share (1)Diluted (loss) / earnings per ordinary share(0.01)(0.33)$0.32Â $0.18Â (0.02)0.20Â Impact of adjusted items0.40Â 0.33Â 0.07Â 0.09Â â€”Â 0.09Â Adjusted diluted earnings / (loss) per ordinary share$0.39Â $â€”Â $0.39Â $0.27Â (0.02)0.29Â Year-to-dateIn millions except per share data20242023Continuing operationsGraphic ArtsAdjusted TotalContinuing operationsGraphic ArtsAdjusted TotalNet income / (loss)$2.4Â (10.6)13.0Â $5.4Â (1.5)$6.9Â Accounting charges relating to acquisitions and disposals of businesses:Â Â Â Â Â Amortization on acquired intangibles0.4Â â€”Â 0.4Â 0.4Â â€”Â 0.4Â Â Â Â Â Â Acquisition and disposal related charge9.4Â 9.3Â 0.1Â â€”Â â€”Â â€”Â Defined benefit pension (credit) / charge(0.5)â€”Â (0.5)8.3Â â€”Â 8.3Â Restructuring charge1.8Â â€”Â 1.8Â 2.8Â â€”Â 2.8Â Share-based compensation charge1.4Â 0.2Â 1.2Â 1.3Â â€”Â 1.3Â Tax impact of defined benefit settlementâ€”Â â€”Â â€”Â (4.9)â€”Â (4.9)Income tax on adjusted items(0.4)(0.1)(0.3)(0.5)â€”Â (0.5)Adjusted net income / (loss)$14.5Â (1.2)15.7Â $12.8Â (1.5)14.3Â Adjusted earnings / (loss) per ordinary share (1)Diluted earnings / (loss) per ordinary share$0.09Â (0.39)0.48Â $0.20Â (0.06)0.25Â Impact of adjusted items0.45Â 0.35Â 0.10Â 0.27Â â€”Â 0.28Â Adjusted diluted earnings / (loss) per ordinary share$0.54Â (0.04)0.58Â $0.47Â (0.06)0.53Â 27(1) For the purpose of calculating diluted earnings per share, the weighted average number of ordinary shares outstanding during the financial year has been adjusted for the dilutive effects of all potential ordinary shares and share options granted to employees, except where there is a loss in the period, then no adjustment is made.Second QuarterIn millions except per share data20242023Continuing operationsGraphic ArtsAdjusted TotalContinuing operationsGraphic ArtsAdjusted TotalAdjusted net income from continuing operations$10.5Â $0.1Â $10.4Â $7.4Â (0.5)7.9Â Add back:Income tax on adjusted items0.2Â 0.1Â 0.1Â 0.3Â â€”Â 0.3Â Provision / (credit) for income taxes3.1Â (0.1)3.2Â 1.8Â â€”Â 1.8Â Net finance costs1.3Â â€”Â 1.3Â 1.8Â â€”Â 1.8Â Adjusted EBITA15.1Â 0.1Â 15.0Â 11.3Â (0.5)11.8Â Depreciation2.3Â â€”Â 2.3Â 3.1Â 0.5Â 2.6Â Adjusted EBITDA17.4Â 0.1Â 17.3Â 14.4Â â€”Â 14.4Â Year-to-dateIn millions except per share data20242023Continuing operationsGraphic ArtsAdjusted TotalContinuing operationsGraphic ArtsAdjusted TotalAdjusted net income from continuing operations$14.5Â (1.2)15.7Â $12.8Â (1.5)14.3Â Add back:Income tax on adjusted items0.4Â 0.1Â 0.3Â 0.5Â â€”Â 0.5Â Provision / (credit) for income taxes4.1Â (0.5)4.6Â (1.8)(0.2)(1.6)Tax impact of defined benefit pension settlementâ€”Â â€”Â â€”Â 4.9Â â€”Â 4.9Â Net finance costs2.7Â â€”Â 2.7Â 3.1Â â€”Â 3.1Â Adjusted EBITA21.7Â (1.6)23.3Â 19.5Â (1.7)21.2Â Depreciation4.5Â â€”Â 4.5Â 6.2Â 1.0Â 5.2Â Adjusted EBITDA26.2Â (1.6)27.8Â 25.7Â (0.7)26.4Â 28The following table presents a reconciliation for the adjusted effective tax rate, adjusted income before income taxes and adjusted provision for income taxes all of which are non-GAAP measures that management believes are KPIs used by the investment community and that such presentation will enhance an investorâ€™s understanding of the Company's operational results.Second QuarterIn millions except per share data20242023Continuing operationsGraphic ArtsAdjusted TotalContinuing operationsGraphic ArtsAdjusted TotalAdjusted net income / (loss) from continuing operations$10.5Â $0.1Â $10.4Â $7.4Â (0.5)7.9Â Add back:Income tax on adjusted items0.2Â 0.1Â 0.1Â 0.3Â â€”Â 0.3Â Provision / (credit) for income taxes3.1Â (0.1)3.2Â 1.8Â â€”Â 1.8Â Adjusted income / (loss) from continuing operations before income taxes13.8Â 0.1Â 13.7Â 9.5Â (0.5)10.0Â Adjusted provision for income taxes3.3Â â€”Â 3.3Â 2.1Â â€”Â 2.1Â Adjusted effective tax rate from continuing operations23.9Â %â€”Â %24.1Â %22.1Â %â€”Â %21.0Â %Year-to-dateIn millions except per share data20242023Continuing operationsGraphic ArtsAdjusted TotalContinuing operationsGraphic ArtsAdjusted TotalAdjusted net income / (loss) from continuing operations$14.5Â (1.2)15.7Â $12.8Â (1.5)14.3Â Add back:Income tax on adjusted items0.4Â 0.1Â 0.3Â 0.5Â â€”Â 0.5Â Tax impact of defined benefit pension settlementâ€”Â â€”Â â€”Â 4.9Â â€”Â 4.9Â Provision / (credit) for income taxes4.1Â (0.5)4.6Â (1.8)(0.2)(1.6)Adjusted income / (loss) from continuing operations before income taxes19.0Â (1.6)20.6Â 16.4Â (1.7)18.1Â Adjusted provision / (credit) for income taxes4.5Â (0.4)4.9Â 3.6Â (0.2)3.8Â Adjusted effective tax rate from continuing operations23.7Â %25.0Â %23.8Â %22.0Â %11.8Â %21.0Â %29SEGMENT RESULTS OF OPERATIONSThe summary that follows provides a discussion of the results of operations of each of our three reportable segments (Gas Cylinders, Elektron and Graphic Arts). The three segments comprise various product offerings that serve multiple end-markets. During 2023, the Graphic Arts reporting segment has been disaggregated from the Elektron segment and is being reported separately as the Graphic Arts segment. The Elektron segment's results for 2023 has been adjusted to strip out Graphic Arts' results. Adjusted EBITDA represents operating income adjusted for share based compensation charges; restructuring charges; acquisition and disposal related gains and costs; depreciation and amortization. A reconciliation to net income and taxes can be found in Note 15 to the condensed consolidated financial statements.GAS CYLINDERSThe net sales and adjusted EBITDA for Gas Cylinders were as follows:Second Quarter% / point changeYear-to-date% / point changeIn millions202420232024 v 2023202420232024 v 2023Net sales$49.8Â $48.5Â 2.7%$95.2Â $90.0Â 5.8%Adjusted EBITDA4.9Â 4.9Â â€”%9.0Â 7.4Â 21.6%Â Â Â Â Â % of net sales9.8Â %10.1Â %(0.3)9.5Â %8.2Â %1.3Net salesThe 2.7% increase in Gas Cylinders sales in the second quarter of 2024 from 2023 was primarily the result of increased sales of SCBA cylinders which benefited from pricing agreed through contract renegotiation. These increases have been partially offset by reduced sales of industrial and alternative fuel cylinders.The 5.8% increase in sales for the first six months of the year was primarily the benefit from renegotiated contracts, which previously constrained inflationary cost pass through in the first six months of 2023. These increases have been partially offset by reduced sales of aluminum cylinders used in our general industrial end market.Adjusted EBITDAThe 0.3 percentage point decrease in adjusted EBITDA for Gas Cylinders as a percentage of net sales in the second quarter of 2024 relative to 2023 is predominantly the result of adverse sales mix and productivity partially offset by pricing improvements from new sales contracts . For the first six months there has been a 1.3 percentage point increase in adjusted EBITDA primarily due to the impact of new sales contracts, partially offset by adverse productivity, volume and mix. 30ELEKTRONThe net sales and adjusted EBITDA for Elektron were as follows:Second Quarter% / point changeYear-to-date% / point changeIn millions202420232024 v 2023202420232024 v 2023Net sales$42.0Â $53.0Â (20.8)%$79.7Â $105.4Â (24.4)%Adjusted EBITDA12.4Â 9.5Â 30.5%18.8Â 19.0Â (1.1)%Â Â Â Â Â % of net sales29.5Â %17.9Â %11.623.6Â %18.0Â %5.6Net salesThe 20.8% and 24.4% decrease in Elektron sales in the second quarter and first six months of 2024 from 2023 was primarily the result of:â€¢Subdued sales of magnesium alloys, especially those used in aerospace and automotive applications;â€¢Reduction in sales of magnesium powders for both commercial and defense; andâ€¢Significant decrease in sales of MRE and chemical response kits in our Magtech division compared to an unusually strong prior year quarter; These decreases were partially offset by increased sales of SoluMagÂ® in the Oil and Gas industry.Adjusted EBITDAThe 11.6 and 5.6 percentage point increase in adjusted EBITDA for Elektron as a percentage of net sales in the second quarter and first six months respectively of 2024 from 2023 was a result of the net recovery from the previously disclosed US Ecology case in 2024 of $5.1 million and $5.3 million, compared to the net cost of $1.2 million and $2.3 million in 2023.This was partially offset by adverse movement in volume and mix and $0.8m unfavorable FX in the first six months of 2024.GRAPHIC ARTSThe net sales and adjusted EBITDA for Graphic Arts were as follows:Second Quarter% / point changeYear-to-date% / point changeIn millions202420232024 v 2023202420232024 v 2023Net sales$7.9Â $8.9Â (11.2)%$14.2Â $16.3Â (12.9)%Adjusted EBITDA0.1Â â€”Â n/a(1.6)(0.7)128.6%Â Â Â Â Â % of net sales1.3Â %â€”Â %1.3(11.3)%(4.3)%(7.0)Net salesThe 11.2% decrease in Graphic Arts sales in the second quarter of 2024 from 2023 was primarily the result of decreased demand for photo-engraving plates, particularly outside the North American market.Adjusted EBITDAGraphic Arts made a small, positive EBITDA of $0.1 million for the second quarter of 2024, compared to breaking even in the second quarter of 2023. For the first six months of 2024 there was an increased EBITDA loss of $1.6 million, compared to a $0.7 million loss in the first six months of 2023, the reason being the result of lower volumes coupled with elevated cost of magnesium, linked to historic purchases. Given recent reductions in the magnesium purchase price, material cost is expected to reduce as we progress through the current year, consistent with the sequential improvement in adjusted EBITDA in the second quarter of 2024. 31LIQUIDITY AND CAPITAL RESOURCESOur liquidity requirements arise primarily from obligations under our indebtedness, capital expenditures, acquisitions, the funding of working capital and the funding of hedging facilities to manage foreign exchange and commodity purchase price risks. We meet these requirements primarily through cash flows from operating activities, cash deposits and borrowings under the Revolving Credit Facility and accompanying ancillary hedging facilities and the Loan Note due in 2026. Our principal liquidity needs are:â€¢funding acquisitions, including deferred contingent consideration payments;â€¢capital expenditure requirements;â€¢payment of shareholder dividends;â€¢servicing interest on the Loan Notes, which is payable at each quarter end, in addition to interest and / or commitment fees on the Senior Facilities Agreement;â€¢working capital requirements, particularly in the short term as we aim to achieve organic sales growth; andâ€¢hedging facilities used to manage our foreign exchange risks and aluminum purchase price risks.We believe that, in the long term, cash generated from our operations will be adequate to meet our anticipated requirements for working capital, capital expenditures and interest payments on our indebtedness. In the short term, we believe we have sufficient credit facilities to cover any variation in our cash flow generation. However, any major repayments of indebtedness will be dependent on our ability to raise alternative financing or to realize substantial returns from operational sales. Also, our ability to expand operations through sales development and capital expenditures could be constrained by the availability of liquidity, which, in turn, could impact the profitability of our operations.We have been in compliance with the covenants under the Loan Notes and the Senior Facilities Agreement throughout all of the quarterly measurement dates from and including SeptemberÂ 30, 2011, to JuneÂ 30, 2024.Luxfer conducts all of its operations through its subsidiaries, joint ventures and affiliates. Accordingly, Luxfer's main cash source is dividends from its subsidiaries. The ability of each subsidiary to make distributions depends on the funds that a subsidiary receives from its operations in excess of the funds necessary for its operations, obligations or other business plans. We have not historically experienced any material impediment to these distributions, and we do not expect any local legal or regulatory regimes to have any impact on our ability to meet our liquidity requirements in the future. In addition, since our subsidiaries are wholly-owned, our claims will generally rank junior to all other obligations of the subsidiaries. If our operating subsidiaries are unable to make distributions, our growth may slow, unless we are able to obtain additional debt or equity financing. In the event of a subsidiary's liquidation, there may not be assets sufficient for us to recoup our investment in the subsidiary.Our ability to maintain or increase the generation of cash from our operations in the future will depend significantly on the competitiveness of and demand for our products, including our success in launching new products. Achieving such success is a key objective of our business strategy. Due to commercial, competitive and external economic factors, however, we cannot guarantee that we will generate sufficient cash flows from operations or that future working capital will be available in an amount sufficient to enable us to service our indebtedness or make necessary capital expenditures.Cash FlowsOperating activitiesCash generated by operating activities was $12.5 million inflow and $1.3 million outflow for the first six months in 2024 and 2023 respectively. It was primarily related to net income from operating activities, net decreases in working capital, and net of the following non-cash items: depreciation and amortization; share-based compensation charges; pension credit; loss on held-for-sale asset group and net changes to assets and liabilities. Cash flow was impacted by the $4.5 million receipt arising from the reimbursement of legal costs in relation to the previously disclosed US Ecology case, the first six months in 2023 had an equivalent outflow of $2.3 million. Also impacting the 2023 cash flow was the $2.1 million contribution the Company made in relation to the sale of the U.S. pension plan to an insurer.Investing activitiesNet cash used by investing activities was $4.1 million for the first six months of 2024, compared to net cash used by investing activities of $4.9 million in 2023, as a result of reduced capital expenditure in the quarter.32Financing activitiesIn the first six months of 2024, net cash used by financing activities was $6.3 million, (2023: $1.2 million provided by financing activities). We made a net drawdown on our banking facilities of $2.0 million, having drawn $6.4 million on our revolving credit facility and paid back $4.4 million of short term debt (2023: $10.1 million drawdown). Dividend payments of $7.0 million (2022: $7.0 million), equating to $0.260 per ordinary share respectively and we paid out $0.3 million, (2023: $0.3 million) in settling share based compensation and $1.0 million, (2023: $1.6 million) in repurchasing our own shares as part of the share buyback program which equates to approximately 100,000 shares (2023: 100,000 shares).Capital ResourcesDividendsWe paid year-to-date dividends in 2024 of $7.0 million and declared an additional $3.5 million (2023: $10.5 million declared year-to-date and $7.0 million paid year-to-date), or $0.260 per ordinary share (2023: $0.260).Any payment of dividends is also subject to the provisions of the U.K. Companies Act, according to which dividends may only be paid out of profits available for distribution determined by reference to financial statements prepared in accordance with the Companies Act and IFRS as adopted by the E.U., which differ in some respects from GAAP. In the event that dividends are paid in the future, holders of the ordinary shares will be entitled to receive payments in U.S. dollars in respect of dividends on the underlying ordinary shares in accordance with the deposit agreement. Furthermore, because we are a holding company, any dividend payments would depend on cash flows from our subsidiaries. 33Authorized sharesOur authorized share capital consists of 40.0 million ordinary shares with a par value of Â£0.50 per share.Contractual obligationsThe following summarizes our significant contractual obligations that impact our liquidity:Â Payments Due by PeriodÂ TotalLess than1Â year1Â â€“Â 3years3Â â€“Â 5yearsAfter5Â yearsÂ (in $ million)Contractual cash obligationsÂ Â Â Â Â Loan Notes due 202625.0Â â€”Â 25.0Â â€”Â â€”Â Revolving credit facility49.3Â â€”Â 49.3Â â€”Â â€”Â Overdraft facility0.2Â 0.2Â â€”Â â€”Â â€”Â Obligations under operating leases22.8Â 4.5Â 7.6Â 2.4Â 8.3Â Capital commitments2.3Â 2.3Â â€”Â â€”Â â€”Â Interest payments11.3Â 4.7Â 6.6Â â€”Â â€”Â Total contractual cash obligations$110.9Â $11.7Â $88.5Â $2.4Â $8.3Â Off-balance sheet measuresAt JuneÂ 30, 2024, we had no off-balance sheet arrangements other than the bonding facilities disclosed in Note 16.NEW ACCOUNTING STANDARDSSee Note 1 of the Notes to Condensed Consolidated Financial Statements for information pertaining to recently adopted accounting standards or accounting standards to be adopted in the future.CRITICAL ACCOUNTING POLICIESWe have adopted various accounting policies to prepare the consolidated financial statements in accordance with GAAP. Certain of our accounting policies require the application of significant judgment by management in selecting the appropriate assumptions for calculating financial estimates. In our 2023 Annual Report on Form 10K, filed with the SEC on February 27, 2024, we identified the critical accounting policies which affect our more significant estimates and assumptions used in preparing our consolidated financial statements.34Item 3.Â Â Â Â Â Â Â Â Quantitative and qualitative disclosures about market riskThere have been no material changes in our market risk during the first half ended JuneÂ 30, 2024. For additional information, refer to Item 7A of our 2023 Annual Report on Form 10-K, filed with the SEC on February 27, 2024.Item 4.Â Â Â Â Â Â Â Â Controls and ProceduresEvaluation of Disclosure Controls and ProceduresWe maintain a system of disclosure controls and procedures designed to provide reasonable assurance as to the reliability of our published financial statements and other disclosures included in this report. Our management evaluated, with the participation of our Chief Executive Officer and our Chief Financial Officer, the effectiveness of the design and operation of our disclosure controls and procedures as of the end of the quarter ended MarchÂ 31, 2024 ,pursuant to Rule 13a-15(b) of the Securities Exchange Act of 1934 (the â€œExchange Actâ€). Based upon their evaluation, our Chief Executive Officer and our Chief Financial Officer concluded that our disclosure controls and procedures were not effective as of the six months or quarter ended JuneÂ 30, 2024, because of the material weakness described in Item 9A of the Form 10-K filed with the SEC on February 27, 2024 not having been fully remediated by the second quarter of 2024.Ongoing Remediation of Material WeaknessDuring the first six months of 2024, we undertook efforts to develop and design enhanced risk assessment procedures to identify and analyze changes in the business that could have a significant impact on financial reporting and determine actions necessary to mitigate new or evolving risks. We have also implemented a new period-end control over the recording of inventory in-transit and enhanced other post-closing controls. However, the material weakness will not be considered fully remediated until management has operated the new risk assessment process for a sufficient period of time and have concluded, through testing, that these controls are operating effectively.Notwithstanding the material weakness in internal control over financial reporting, management, including our Chief Executive Officer and our Chief Financial Officer, believes and has concluded that, the consolidated financial statements included in this Quarterly Report on Form 10-Q fairly present, in all material respects, the Companyâ€™s financial position, results of operations and cash flows for the periods presented in conformity with U.S. generally accepted accounting principles.Changes in Internal Control over Financial Reporting Other than the changes related to the ongoing remediation activities related to the material weakness noted above, no change in our internal control over financial reporting (as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act) occurred during the six months or quarter ended JuneÂ 30, 2024, that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.35PART II - OTHER INFORMATIONItem 1.Â Â Â Â Â Â Â Â Legal ProceedingsThe Company is a defendant in various lawsuits and is subject to various claims that arise in the normal course of business, the most significant of which are summarized in Note 16 (commitments and contingencies) to the consolidated financial statements in ITEM 1. In the opinion of management, the likelihood that the ultimate disposition of these matters will have a material adverse impact is remote.Item 1A.Â Â Â Â Risk FactorsThere have been no material changes from the risk factors previously disclosed in Item 1A. of our 2023 Annual Report on Form 10-K filed with the SEC on February 27, 2024.Item 2.Â Â Â Â Â Â Â Â Unregistered Sales of Equity Securities and Use of ProceedsNot applicable.Item 5.Â Â Â Â Â Â Â Â Other InformationDirector and Officer Trading ArrangementsNone of Luxferâ€™s directors or executive officers adopted or terminated a Rule 10b5-1 trading arrangement or a non-Rule 10b5-1 trading arrangement (as defined in Item 408(c) of Regulation S-K) during the quarterly period covered by this Report.Item 6.Â Â Â Â Exhibits 3.1Â Â Â Â Articles of Association of Luxfer Holdings PLC, initially filed with the SEC on December 2, 2011 and as amended on May 22, 2018, May 15, 2019, and July 29, 2022 (filed herewith) 10.10Â Â Â Â Luxfer Holdings PLC Non-Executive Directors Equity Incentive Plan, as amended and restated on June 6, 2024 (incorporated by reference to Exhibit 10.1 of the Registrantâ€™s Current Report on Form 8-K (File No. 001-35370), filed with the Commission on June 11, 2024) 31.1 Â Â Â Â Certification of Chief Executive Officer pursuant to Rule 13a-14(a) of the Securities Exchange Act of 1934 (filed herewith)31.2 Â Â Â Â Certification of Chief Financial Officer pursuant to Rule 13a-14(a) of the Securities Exchange Act of 1934 (filed herewith)32.1 Â Â Â Â Certification of Chief Executive Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (furnished herewith)32.2 Â Â Â Â Certification of Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (furnished herewith)101.INSÂ Â Â Â The financial statements from the Companyâ€™s Interim Report on Form 10-Q for the quarter ended JuneÂ 30, 2024, formatted in inline XRBL: (i) Condensed Consolidated Statements of Income; (ii) Condensed Consolidated Statements of Comprehensive Income; (iii) Condensed Consolidated Balance Sheets; (iv) Condensed Consolidated Statements of Cash Flows; (v) Condensed Consolidated Statements of Changes in Equity; and (vi) Notes to Condensed Consolidated Financial Statements, tagged as blocks of text and including detailed tags. The instance document does not appear in the Interactive Data File because its XRBL tags are embedded within the Inline XRBL document101.SCHÂ Â Â Â Inline XRBL Taxonomy Extension Schema Document101.CALÂ Â Â Â Inline XRBL Taxonomy Extension Calculation Linkbase Document101.DEFÂ Â Â Â Inline XRBL Taxonomy Extension Definition Linkbase Document101.LABÂ Â Â Â Inline XRBL Taxonomy Extension Label Linkbase Document101.PREÂ Â Â Â Inline XRBL Taxonomy Extension Presentation Linkbase Document104Â Â Â Â Cover Page Interactive Data File (formatted as inline XRBL and contained in Exhibit 101)36SIGNATURESPursuant to the requirements of Section 13 or 15 (d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.Luxfer Holdings plc(Registrant)/s/Andrew ButcherAndrew ButcherChief Executive Officer(Duly Authorized Officer)July 30, 202437 EX-3.1 2 luxferholdingsplc-articl.htm EX-3.1 luxferholdingsplc-articl Company Number 03690830 ARTICLES OF ASSOCIATION OF LUXFER HOLDINGS PLC (Adopted by Special Resolution passed on 8 June 2022 and effective as of 29 July 2022) INTERPRETATION 1. EXCLUSION OF OTHER REGULATIONS OR ARTICLES No regulations or articles set out in any statute, or in any statutory instrument or other subordinate legislation made under any statute, concerning companies shall apply as the regulations or articles of the company. 2. DEFINITIONS 2.1 In these articles unless the context otherwise requires: â€œaddressâ€ includes a number or address used for the purposes of sending or receiving documents or information by electronic means; â€œthese articlesâ€ means these articles of association as altered from time to time and the expression "this article" shall be construed accordingly; â€œthe auditorsâ€ means the auditors from time to time of the company or, in the case of joint auditors, any one of them; â€œthe boardâ€ means the board of directors from time to time of the company or the directors present at a meeting of the directors at which a quorum is present; â€œcertificated shareâ€ means a share which is not an uncertificated share and references in these articles to a share being held in certificated form shall be construed accordingly; â€œchairâ€ means the chair of the board from time to time; â€œclear daysâ€ in relation to the period of a notice means that period excluding the day when the notice is served or deemed to be served and the day for which it is given or on which it is to take effect; â€œCompanies Actsâ€ means every statute (including any orders, regulations or other subordinate legislation made under it) from time to time in force concerning companies in so far as it applies to the company; â€œthe holderâ€ in relation to any shares means the person whose name is entered in the register as the holder of those shares; â€œmemberâ€ means a member of the company; â€œofficeâ€ means the registered office from time to time of the company; â€œOperatorâ€ means a person approved under the Uncertificated Securities Regulations 2001 as operator of a relevant system; Â 2 â€œordinary sharesâ€ means ordinary shares of Â£0.50 each in the share capital of the company; â€œpaid upâ€ means paid up or credited as paid; â€œparticipating classâ€ means a class of shares title to which is permitted by an Operator to be transferred by means of a relevant system; â€œperson entitled by transmissionâ€ means a person whose entitlement to a share in consequence of the death or bankruptcy of a member or of any other event giving rise to its transmission by operation of law has been noted in the register; â€œregisterâ€ means the register of members of the company; â€œrelevant systemâ€ means a computer-based system which allows units of securities without written instruments to be transferred and endorsed pursuant to the uncertificated securities rules; â€œsealâ€ means a common or official seal that the company may be permitted to have under the Companies Acts; â€œthe secretaryâ€ means the secretary, or (if there are joint secretaries) any one of the joint secretaries, of the company and includes an assistant or deputy secretary and any person appointed by the board to perform any of the duties of the secretary; â€œuncertificated securities rulesâ€ means any provision of the Companies Acts relating to the holding, evidencing of title to, or transfer of uncertificated shares and any legislation, rules or other arrangements made under or by virtue of such provision; â€œuncertificated shareâ€ means a share of a class which is at the relevant time a participating class, title to which is recorded on the register as being held in uncertificated form and references in these articles to a share being held in uncertificated form shall be construed accordingly; and â€œUnited Kingdomâ€ means Great Britain and Northern Ireland. 2.2 References to a document being executed, signed or to signature include references to its being executed or signed under hand or under seal or by any other method and, in the case of a communication in electronic form, such references are to its being authenticated as specified by the Companies Acts. 2.3 References to writing and to any form of written communication include references to any method of representing or reproducing words in a legible and non-transitory form whether sent or supplied in electronic form or otherwise. 2.4 Words or expressions to which a particular meaning is given by the Companies Acts in force when these articles or any part of these articles are adopted bear (if not inconsistent with the subject matter or context) the same meaning in these articles or that part (as the case may be) save that the word â€œcompanyâ€ shall include any body corporate. 2.5 References to a meeting shall not be taken as requiring more than one person to be present if any quorum requirement can be satisfied by one person. 2.6 Headings are included only for convenience and shall not affect meaning. Â 3 3. LIMITED LIABILITY The liability of members of the company is limited to the amount, if any, unpaid on the shares in the company held by them. 4. CHANGE OF NAME The company may change its name by resolution of the board. SHARE CAPITAL 5. RIGHTS ATTACHED TO SHARES Subject to the provisions of the Companies Acts and to any rights attached to existing shares, any share may be issued with or have attached to it such rights and restrictions as the company may by ordinary resolution decide or, if no such resolution has been passed or so far as the resolution does not make specific provision, as the board may decide. Such rights and restrictions shall apply to the relevant shares as if the same were set out in these articles. 6. REDEEMABLE SHARES Subject to the provisions of the Companies Acts and to any rights attached to existing shares, any share may be issued which is to be redeemed or is liable to be redeemed at the option of the company or the holder. The board may determine the terms, conditions, and manner of redemption of any redeemable share so issued. Such terms and conditions shall apply to the relevant shares as if the same were set out in these articles. 7. VARIATION OF RIGHTS Subject to the provisions of the Companies Acts, all or any of the rights attached to any existing class of shares may from time to time (whether or not the company is being wound up) be varied either with the consent in writing of the holders of not less than three-fourths in nominal value of the issued shares of that class (excluding any shares of that class held as treasury shares) or with the sanction of a special resolution passed at a separate general meeting of the holders of those shares. All the provisions of these articles as to general meetings of the company shall, with any necessary modifications, apply to any such separate general meeting, but so that the necessary quorum shall be two persons entitled to vote and holding or representing by proxy not less than one-third in nominal value of the issued shares of the class in question (excluding any shares of that class held as treasury shares), (but so that at any adjourned meeting one holder entitled to vote and present in person or by proxy (whatever the number of shares held by such person) shall be a quorum), that every holder of shares of the class present in person or by proxy and entitled to vote shall be entitled on a poll to one vote for every share of the class held by such person (subject to any rights or restrictions attached to any class of shares) and that any holder of shares of the class present in person or by proxy and entitled to vote may demand a poll. The foregoing provisions of this article shall apply to the variation of the special rights attached to some only of the shares of any class as if each group of shares of the class differently treated formed a separate class and their special rights were to be varied. For the purposes of this article, where a person is present by proxy or proxies, such person is treated as holding only the shares in respect of which those proxies are authorised to exercise voting rights. 8. PART PASSU ISSUES The rights conferred upon the holders of any shares shall not, unless otherwise expressly provided in the rights attaching to those shares, be deemed to be varied by the creation or issue of further shares ranking pan passu with them. Â 4 9. SHARES Subject to the provisions of the Companies Acts, to the provisions of these articles and to any resolution passed by the company and without prejudice to any rights attached to existing shares, the board may offer, allot, grant options over or otherwise deal with or dispose of shares in the company, or grant rights to subscribe for or convert any securities into shares in the company, to such persons, at such times and for such consideration and upon such terms as the board may decide. 10. PAYMENT OF COMMISSION The company may in connection with the issue of any shares or the sale for cash of treasury shares exercise all powers of paying commission and brokerage conferred or permitted by the Companies Acts. Any such commission or brokerage may be satisfied by the payment of cash or by the allotment of fully or partly-paid shares or other securities or partly in one way and partly in the other. 11. TRUSTS NOT RECOGNISED Except as ordered by a court of competent jurisdiction or as required by law, no person shall be recognised by the company as holding any share upon any trust and the company shall not be bound by or required in any way to recognise (even when having notice of it) any interest in any share or (except only as by these articles or by law otherwise provided) any other right in respect of any share other than an absolute right to the whole of the share in the holder. 12. SUSPENSION OF RIGHTS WHERE NON-DISCLOSURE OF INTEREST 12.1 Where the holder of any shares in the company, or any other person appearing to be interested in those shares, fails to comply within the relevant period with any statutory notice in respect of those shares or, in purported compliance with such a notice, has made a statement which is false or inadequate in a material particular, the company may give the holder of those shares a further notice (a â€œrestriction noticeâ€) to the effect that from the service of the restriction notice those shares will be subject to some or all of the relevant restrictions, and from service of the restriction notice those shares shall, notwithstanding any other provision of these articles, be subject to those relevant restrictions accordingly. For the purpose of enforcing the relevant restriction referred to in sub-paragraph (c) of the definition of "relevant restrictions", the board may give notice to the relevant member requiring the member to change the relevant shares held in uncertificated form to certificated form by the time stated in the notice and to keep them in certificated form for as long as the board requires. The notice may also state that the member may not change any of the relevant shares held in certificated form to uncertificated form. If the member does not comply with the notice, the board may authorise any person to instruct the Operator to change the relevant shares held in uncertificated form to certificated form. 12.2 If after the service of a restriction notice in respect of any shares the board is satisfied that all information required by any statutory notice relating to those shares or any of them from their holder or any other person appearing to be interested in the shares the subject of the restriction notice has been supplied, the company shall, within seven days, cancel the restriction notice. The company may at any time at its discretion cancel any restriction notice or exclude any shares from it. The company shall cancel a restriction notice within seven days after receipt of a notice in writing that the relevant shares have been transferred pursuant to an arm's length sale. 12.3 Where any restriction notice is cancelled or ceases to have effect in relation to any shares, any moneys relating to those shares which were withheld by reason of that notice shall be paid without interest to the person who would but for the notice have been entitled to them or as such person may direct. Â 5 12.4 Any new shares in the company issued in right of any shares subject to a restriction notice shall also be subject to the restriction notice, and the board may make any right to an allotment of the new shares subject to restrictions corresponding to those which will apply to those shares by reason of the restriction notice when such shares are issued. 12.5 Any holder of shares on whom a restriction notice has been served may at any time request the company to give in writing the reason why the restriction notice has been served, or why it remains uncancelled, and within 14 days of receipt of such a notice the company shall give that information accordingly. 12.6 Where a person appearing to be interested in shares has been served with a statutory notice and the shares in which such person appears to be interested are held by an Approved Depositary, this article applies only to those shares which are held by the Approved Depositary in which that person appears to be interested and not (so far as that person's apparent interest is concerned) to any other shares held by the Approved Depositary. 12.7 Where a member who is an Approved Depositary has been served with a statutory notice, the obligations of that member will be limited to disclosing to the company information relating to any person who appears to be interested in the shares held by it which has been recorded by it in accordance with the arrangement under which it was appointed as an Approved Depositary. 12.8 If a statutory notice is given by the company to a person appearing to be interested in any share, a copy shall at the same time be given to the holder, but the failure or omission to do so or the non-receipt of the copy by the holder shall not invalidate such notice. 12.9 This article is in addition to, and shall not in any way prejudice or affect, the statutory rights of the company arising from any failure by any person to give any information required by a statutory notice within the time specified in it. For the purpose of this article, a statutory notice need not specify the relevant period and may require any information to be given before the expiry of the relevant period. 12.10 In this article: a sale is an â€œarm's length saleâ€ if the board is satisfied that it is a bona fide sale of the whole of the beneficial ownership of the shares to a party unconnected with the holder or with any person appearing to be interested in such shares and shall include a sale made by way of or in pursuance of acceptance of a takeover offer and a sale made through a recognised investment exchange or any other stock exchange outside the United Kingdom. For this purpose, an associate (within the definition of that expression in any statute relating to insolvency in force at the date of adoption of this article) shall be included amongst the persons who are connected with the holder or any person appearing to be interested in such shares; â€œperson appearing to be interestedâ€ in any shares shall mean any person named in a response to a statutory notice or otherwise notified to the company by a member as being so interested or shown in any register or record kept by the company under the Companies Acts as so interested or, taking into account a response or failure to respond in the light of the response to any other statutory notice and any other relevant information in the possession of the company, any person whom the company knows or has reasonable cause to believe is or may be so interested; â€œperson with a 0.25 per cent. interestâ€ means a person who holds, or is shown in any register or record kept by the company under the Companies Acts as having an interest in, shares in the company which comprise in total at least 0.25 per cent. in number or nominal value of the shares of the company (calculated exclusive of any shares held as treasury Â 6 shares), or of any class of such shares (calculated exclusive of any shares of that class held as treasury shares), in issue at the date of service of the restriction notice; â€œrelevant periodâ€ means a period of 14 days following service of a statutory notice; â€œrelevant restrictionsâ€ mean in the case of a restriction notice served on a person with a 0.25 per cent. interest that: (a) the shares shall not confer on the holder any right to attend or vote either personally or by proxy at any general meeting of the company or at any separate general meeting of the holders of any class of shares in the company or to exercise any other right conferred by membership in relation to general meetings; (b) the board may withhold payment of all or any part of any dividends or other moneys payable in respect of the shares and the holder shall not be entitled to receive shares in lieu of dividend; and (c) the board may decline to register a transfer of any of the shares which are certificated shares, unless such a transfer is pursuant to an arm's length sale, and in any other case mean only the restriction specified in sub-paragraph (a) of this definition; and â€œstatutory noticeâ€ means a notice served by the company under the Companies Acts requiring particulars of interests in shares or of the identity of persons interested in shares. 13. UNCERTIFICATED SHARES 13.1 Pursuant and subject to the uncertificated securities rules, the board may permit title to shares of any class to be evidenced otherwise than by a certificate and title to shares of such a class to be transferred by means of a relevant system and may make arrangements for a class of shares (if all shares of that class are in all respects identical) to become a participating class. Title to shares of a particular class may only be evidenced otherwise than by a certificate where that class of shares is at the relevant time a participating class. The board may also, subject to compliance with the uncertificated securities rules, determine at any time that title tom any class of shares may from a date specified by the board no longer be evidenced otherwise than by a certificate or that title to such a class shall cease to be transferred by means of any particular relevant system. 13.2 In relation to a class of shares which is a participating class and for so long as it remains a participating class, no provision of these articles shall apply or have effect to the extent that it is inconsistent in any respect with: (a) the holding of shares of that class in uncertificated form; (b) the transfer of title to shares of that class by means of a relevant system; and (c) any provision of the uncertificated securities rules, and, without prejudice to the generality of this article, no provision of these articles shall apply or have effect to the extent that it is in any respect inconsistent with the maintenance, keeping or entering up by the Operator, so long as that is permitted or required by the uncertificated securities rules, of an Operator register of securities in respect of that class of shares in uncertificated form. Â 7 13.3 Shares of a class which is at the relevant time a participating class may be changed from uncertificated to certificated form, and from certificated to uncertificated form, in accordance with and subject as provided in the uncertificated securities rules. 13.4 If, under these articles or the Companies Acts, the company is entitled to sell, transfer, or otherwise dispose of, forfeit, re-allot, accept the surrender of or otherwise enforce a lien over an uncertificated share, then, subject to these articles and the Companies Acts, such entitlement shall include the right of the board to: (a) require the holder of that uncertificated share by notice in writing to change that share from uncertificated to certificated form within such period as may be specified in the notice and keep it as a certificated share for as long as the board requires; (b) appoint any person to take such other steps, by instruction given by means of a relevant system or otherwise, in the name of the holder of such share as may be required to effect the transfer of such share and such steps shall be as effective as they had been taken by the registered holder of that share; and (c) take such other action that the board considers appropriate to achieve the sale, transfer, disposal, forfeiture, re-allotment or surrender of that share or otherwise to enforce a lien in respect of that share. 13.5 Unless the board otherwise determines, shares which a member holds in uncertificated form shall be treated as separate holdings from any shares which that member holds in certificated form. However, shares held in uncertificated form shall not be treated as forming a class which is separate from certificated shares with the same rights. 13.6 Unless the board otherwise determines or the uncertificated securities rules otherwise require, any shares issued or created out of or in respect of any uncertificated shares shall be uncertificated shares and any shares issued or created out of or in respect of any certificated shares shall be certificated shares. 13.7 The company shall be entitled to assume that the entries on any record of securities maintained by it in accordance with the uncertificated securities rules and regularly reconciled with the relevant Operator register of securities are a complete and accurate reproduction of the particulars entered in the Operator register of securities and shall accordingly not be liable in respect of any act or thing done or omitted to be done by or on behalf of the company in reliance on such assumption; in particular, any provision of these articles which requires or envisages that action will be taken in reliance on information contained in the register shall be construed to permit that action to be taken in reliance on information contained in any relevant record of securities (as so maintained and reconciled). 14. RIGHT TO SHARE CERTIFICATES Every person (except a person to whom the company is not by law required to issue a certificate) whose name is entered in the register as a holder of any certificated shares shall be entitled, without payment, to receive within the time limits prescribed by the Companies Acts (or, if earlier, within any prescribed time limit or within a time specified when the shares were issued) one certificate for all those shares of any one class. In the case of a certificated share held jointly by several persons, the company shall not be bound to issue more than one certificate and delivery of a certificate to one of several joint holders shall be sufficient delivery to all. A member who transfers some but not all of the shares comprised in a certificate shall be entitled to a certificate for the balance without charge to the extent the balance is to be held in certificated form. Â 8 15. REPLACEMENT OF SHARE CERTIFICATES If a share certificate is defaced, worn out, stolen, lost, or destroyed, it may be replaced on such terms (if any) as to evidence and indemnity as the board may decide and, where it is defaced or worn out, after delivery of the old certificate to the company. Any two or more certificates representing shares of any one class held by any member shall at their request be cancelled and a single new certificate for such shares issued in lieu. Any certificate representing shares of any one class held by any member may at their request be cancelled and two or more certificates for such shares may be issued instead. The board may require the payment of any exceptional out-of-pocket expenses of the company incurred in connection with the issue of any certificates under this article. Any one of two or more joint holders may request replacement certificates under this article. 16. SHARE CERTIFICATES SENT AT HOLDER'S RISK Every share certificate sent in accordance with these articles will be sent at the risk of the member or other person entitled to the certificate. The company will not be responsible for any share certificate lost or delayed in the course of delivery. 17. EXECUTION OF SHARE CERTIFICATES Every share certificate shall be executed under a seal or in such other manner as the board, having regard to the terms of issue and any listing requirements, may authorise and shall specify the number and class of the shares to which it relates, and the amount or respective amounts paid up on the shares. The board may by resolution decide, either generally or in any particular case or cases, that any signatures on any share certificates need not be autographic but may be applied to the certificates by some mechanical or other means or may be printed on them or that the certificates need not be signed by any person. LIEN 18. COMPANY'S LIEN ON SHARES NOT FULLY PAID The company shall have a first and paramount lien on every share (not being a fully paid share) for all amounts payable to the company (whether presently or not) in respect of that share. The company's lien on a share shall extend to every amount payable in respect of it. The board may at any time either generally or in any particular case waive any lien that has arisen or declare any share to be wholly or in part exempt from the provisions of this article. 19. ENFORCING LIEN BY SALE The company may sell, in such manner as the board may decide, any share on which the company has a lien if a sum in respect of which the lien exists is presently payable and is not paid within 14 clear days after a notice has been served on the holder of the share or the person who is entitled by transmission to the share, demanding payment and stating that if the notice is not complied with the share may be sold. For giving effect to the sale the board may authorise some person to execute an instrument of transfer of the share sold to or in accordance with the directions of the purchaser. The transferee shall not be bound to see to the application of the purchase money, nor shall their title to the share be affected by any irregularity or invalidity in relation to the sale. 20. APPLICATION OF PROCEEDS OF SALE The net proceeds, after payment of the costs, of the sale by the company of any share on which it has a lien shall be applied in or towards payment or discharge of the debt or liability in respect of which the lien exists so far as it is presently payable, and any residue shall (subject to a like lien for debts or liabilities not presently payable as existed upon the share prior to the Â 9 sale and upon surrender, if required by the company, for cancellation of the certificate for the share sold) be paid to the person who was entitled to the share at the time of the sale. CALLS ON SHARES 21. CALLS Subject to the terms of issue, the board may from time to time make calls upon the members in respect of any moneys unpaid on their shares (whether on account of the nominal amount of the shares or by way of premium) and not payable on a date fixed by or in accordance with the terms of issue, and each member shall (subject to the company serving upon such person at least 14 clear days' notice specifying when and where payment is to be made) pay to the company as required by the notice the amount called on their shares. A call may be made payable by instalments. A call may be revoked or postponed, in whole or in part, as the board may decide. A person upon whom a call is made shall remain liable jointly and severally with the successors in title to their shares for all calls made upon such person notwithstanding the subsequent transfer of the shares in respect of which the call was made. 22. TIMING OF CALLS A call shall be deemed to have been made at the time when the resolution of the board authorising the call was passed. 23. LIABILITY OF JOINT HOLDERS The joint holders of a share shall be jointly and severally liable to pay all calls in respect of the share. 24. INTEREST DUE ON NON-PAYMENT If a call remains unpaid after it has become due and payable, the person from whom it is due and payable shall pay interest on the amount unpaid from the day it is due and payable to the time of actual payment at such rate, not exceeding 15 per cent. per annum, as the board may decide, and all expenses that have been incurred by the company by reason of such non- payment, but the board shall be at liberty in any case or cases to waive payment of the interest or expenses wholly or in part. 25. SUMS DUE ON ALLOTMENT TREATED AS CALLS Any amount which becomes payable in respect of a share on allotment or on any other date fixed by or in accordance with the terms of issue, whether in respect of the nominal amount of the share or by way of premium or as an instalment of a call, shall be deemed to be a call and, if it is not paid, all the provisions of these articles shall apply as if the sum had become due and payable by virtue of a call. 26. POWER TO DIFFERENTIATE The board may on or before the issue of shares differentiate between the allottees or holders as to the amount of calls to be paid and the times of payment. 27. PAYMENT OF CALLS IN ADVANCE The board may, if it thinks fit, receive from any member who is willing to advance them all or any part of the moneys uncalled and unpaid upon any shares held by such person and on all or any of the moneys so advanced may (until they would, but for the advance, become presently payable) pay interest at such rate, not exceeding (unless the company by ordinary resolution shall otherwise direct) 15 per cent. per annum, as the board may decide. Â 10 FORFEITURE OF SHARES 28. NOTICE IF CALL OR INSTALMENT NOT PAID If any call or instalment of a call remains unpaid on any share after the day appointed for payment, the board may at any time serve a notice on the holder requiring payment of so much of the call or instalment as is unpaid, together with any interest which may have accrued, and any expenses incurred by the company by reason of such non-payment. 29. FORM OF NOTICE The notice shall name a further day (not being less than 14 clear days from the date of the notice) on or before which, and the place where, the payment required by the notice is to be made and shall state that in the event of non-payment on or before the day and at the place appointed, the shares in respect of which the call has been made or instalment is payable will be liable to be forfeited. 30. FORFEITURE FOR NON-COMPLIANCE WITH NOTICE If the notice is not complied with, any share in respect of which it was given may, at any time before payment of all calls or instalments and interest and expenses due in respect of it have been made, be forfeited by a resolution of the board to that effect and the forfeiture shall include all dividends declared and other moneys payable in respect of the forfeited shares and not paid before the forfeiture. The board may accept the surrender of any share liable to be forfeited and, in that event, references in these articles to forfeiture shall include surrender. 31. NOTICE AFTER FORFEITURE When any share has been forfeited, notice of the forfeiture shall be served upon the person who was before forfeiture the holder of the share, but no forfeiture shall be invalidated by any omission or neglect to give notice. 32. SALE OF FORFEITED SHARES Until cancelled in accordance with the requirements of the Companies Acts, a forfeited share shall be deemed to be the property of the company and may be sold or otherwise disposed of either to the person who was, before forfeiture, the holder or to any other person upon such terms and in such manner as the board shall decide. The board may for the purposes of the disposal authorise some person to execute an instrument of transfer to the designated transferee. The company may receive the consideration (if any) given for the share on its disposal. At any time before a sale or disposition the forfeiture may be cancelled by the board on such terms as the board may decide. 33. ARREARS TO BE PAID NOTWITHSTANDING FORFEITURE 33.1 A person whose shares have been forfeited shall cease to be a member in respect of them and shall surrender to the company for cancellation the certificate for the forfeited shares but shall remain liable to pay to the company all moneys which at the date of the forfeiture were payable by such person to the company in respect of those shares with interest thereon at the rate of 15 per cent. per annum (or such lower rate as the board may decide) from the date of forfeiture until payment, and the company may enforce payment without being under any obligation to make any allowance for the value of the shares forfeited or for any consideration received on their disposal. Â 11 34. STATUTORY DECLARATION AS TO FORFEITURE A statutory declaration that the declarant is a director of the company or the secretary and that a share has been forfeited on a specified date shall be conclusive evidence of the facts stated in it as against all persons claiming to be entitled to the share. The declaration shall (subject to the execution of an instrument of transfer if necessary) constitute a good title to the share and the person to whom the share is sold or otherwise disposed of shall not be bound to see to the application of the purchase money (if any) nor shall their title to the share be affected by any irregularity or invalidity in the proceedings relating to the forfeiture, sale, or disposal. TRANSFER OF SHARES 35. TRANSFER 35.1 Subject to such of the restrictions of these articles as may be applicable: (a) any member may transfer all or any of their uncertificated shares by means of a relevant system in such manner provided for, and subject as provided in, the uncertificated securities rules, and accordingly no provision of these articles shall apply in respect of an uncertificated share to the extent that it requires or contemplates the effecting of a transfer by an instrument in writing or the production of a certificate for the share to be transferred; and (b) any member may transfer all or any of their certificated shares by an instrument of transfer in any usual form or in any other form which the board may approve. 35.2 The transferor of a share shall be deemed to remain the holder of the share concerned until the name of the transferee is entered in the register in respect of it. 36. EXECUTION OF TRANSFER The instrument of transfer of a certificated share shall be executed by or on behalf of the transferor and (in the case of a partly paid share) the transferee. All instruments of transfer, when registered, may be retained by the company. 37. RIGHTS TO DECLINE REGISTRATION OF PARTLY PAID SHARES The board may, in its absolute discretion and without giving any reason for so doing, decline to register any transfer of any share which is not a fully paid share. 38. OTHER RIGHTS TO DECLINE REGISTRATION 38.1 Registration of a transfer of an uncertificated share may be refused in the circumstances set out in the uncertificated securities rules, and where, in the case of a transfer to joint holders, the number of joint holders to whom the uncertificated share is to be transferred exceeds four. 38.2 The board may decline to register any transfer of a certificated share unless: (a) the instrument of transfer is duly stamped or duly certified or otherwise shown to the satisfaction of the board to be exempt from stamp duty and is left at the office or such other place as the board may from time to time determine accompanied (save in the case of a transfer by a person to whom the company is not required by law to issue a certificate and to whom a certificate has not been issued) by the certificate for the share to which it relates and such other evidence as the board may reasonably require to show the right of the person executing the instrument of transfer to make the transfer and, if the instrument of transfer is executed by some other person on their behalf, the authority of that person so to do; Â 12 (b) the instrument of transfer is in respect of only one class of share; and (c) in the case of a transfer to joint holders, the number of joint holders to whom the share is to be transferred does not exceed four. 38.3 For all purposes of these articles relating to the registration of transfers of shares, the renunciation of the allotment of any shares by the allottee in favour of some other person shall be deemed to be a transfer and the board shall have the same powers of refusing to give effect to such a renunciation as if it were a transfer. 39. NO FEE FOR REGISTRATION No fee shall be charged by the company for registering any transfer, document or instruction relating to or affecting the title to any share or for making any other entry in the register. 40. UNTRACED SHAREHOLDERS 40.1 The company can sell any certificated shares at the best price reasonably obtainable at the time of the sale if: (a) during the 12 years before the notice referred to in (b) below, the shares have been in issue either in certificated or uncertificated form, at least three cash dividends have become payable on the shares and no dividend has been cashed during that period; (b) after the 12 year period, the company has sent a notice to the last known address the company has for the relevant member, stating that it intends to sell the shares. Before sending such a notice to a member, the company must have used reasonable efforts to trace the member; and (c) during the 12 year period and for three months after sending the notice referred to in (b) above, the company has not heard from the member, or any person entitled to the shares by law. 40.2 To sell any shares in this way, the board can appoint anyone to transfer the shares. This transfer will be just as effective as if it had been signed by the holder, or by a person who is entitled to the shares by law. The person to whom the shares are transferred will not be bound to concern himself as to what is done with the purchase moneys, nor will their ownership be affected even if the sale is irregular or invalid in any way. 40.3 The proceeds of sale will be forfeited and will belong to the company and the company will not be liable in any respect to the person who would have been entitled to the shares by law for the proceeds of sale. The company can use the money for such good causes as the directors decide. TRANSMISSION OF SHARES 41. TRANSMISSION ON DEATH If a member dies, the survivor or survivors, where such member was a joint holder, and such person's personal representatives, where such member was a sole holder or the only survivor of joint holders, shall be the only persons recognised by the company as having any title to such person's shares; but nothing contained in these articles shall release the estate of a deceased holder from any liability in respect of any share held by such person solely or jointly with other persons. Â 13 42. ENTRY OF TRANSMISSION IN REGISTER Where the entitlement of a person to a share in consequence of the death or bankruptcy of a member or of any other event giving rise to its transmission by operation of law is proved to the satisfaction of the board, the board shall within two months after proof cause the entitlement of that person to be noted in the register. 43. ELECTION OF PERSON ENTITLED BY TRANSMISSION Any person entitled by transmission to a share may, subject as provided elsewhere in these articles, elect either to become the holder of the share or to have some person nominated by such person registered as the holder. If such person elects to be registered himself such person shall give notice to the company to that effect. If such person elects to have another person registered, and the share is a certificated share, such person shall execute an instrument of transfer of the share to that person. If such person elects to have himself or another person registered and the share is an uncertificated share, such person shall take any action the board may require (including, without limitation, the signing of any document and the giving of any instruction by means of a relevant system) to enable himself or that person to be registered as the holder of the share. The board may at any time require the person to elect either to be registered himself or to transfer the share and if the requirements are not complied with within 60 days of being issued the board may withhold payment of all dividends and other moneys payable in respect of the share until the requirements have been complied with. All the provisions of these articles relating to the transfer of, and registration of transfers of, shares shall apply to the notice or transfer as if the death or bankruptcy of the member or other event giving rise to the transmission had not occurred and the notice or transfer was given or executed by the member. 44. RIGHTS OF PERSON ENTITLED BY TRANSMISSION Where a person becomes entitled by transmission to a share, the rights of the holder in relation to that share shall cease, but the person entitled by transmission to the share may give a good discharge for any dividends or other moneys payable in respect of it and shall have the same rights in relation to the share as such person would have had if such person were the holder of it save that, until such person becomes the holder, such person shall not be entitled in respect of the share (except with the authority of the board) to receive notice of, or to attend or vote at, any general meeting of the company or at any separate general meeting of the holders of any class of shares in the company or to exercise any other right conferred by membership in relation to general meetings. ALTERATION OF SHARE CAPITAL 45. SUB-DIVISION Any resolution authorising the company to sub-divide its shares or any of them may determine that, as between the shares resulting from the sub-division, any of them may have any preference or advantage or be subject to any restriction as compared with the others. 46. FRACTIONS Whenever as a result of a consolidation, consolidation and sub-division or sub-division of shares any holders would become entitled to fractions of a share, the board may deal with the fractions as it thinks fit including by ignoring fractions altogether or by aggregating and selling them or by dealing with them in some other way. For the purposes of effecting any such sale, the board may arrange for the shares representing the fractions to be entered in the register as certificated shares. The board may sell shares representing fractions to any person, including the company and may authorise some person to transfer or deliver the shares to, or in accordance with the directions of, the purchaser. The person to whom any shares are Â 14 transferred or delivered shall not be bound to see to the application of the purchase money nor shall such person's title to the shares be affected by any irregularity in, or invalidity of, the proceedings relating to the sale. NOTICE OF GENERAL MEETINGS 47. OMISSION OR NON-RECEIPT OF NOTICE 47.1 The accidental omission to give any notice of a meeting or the accidental omission to send or supply any document or other information relating to any meeting to, or the non-receipt (even if the company becomes aware of such non-receipt) of any such notice, document or other information by, any person entitled to receive the notice, document or other information shall not invalidate the proceedings at that meeting. 47.2 A member present in person or by proxy at a meeting shall be deemed to have received proper notice of that meeting and, where applicable, of the purpose of that meeting. 48. POSTPONEMENT OF GENERAL MEETINGS 48.1 If the board, in its absolute discretion, considers that it is impractical or undesirable for any reason to hold a general meeting on the date or at the time or place specified in the notice calling the general meeting, it may postpone or move the general meeting to another date, time and/or place. The board shall take reasonable steps to ensure that notice of the date, time and place of the rearranged meeting is given to any member trying to attend the meeting at the original time and place. Notice of the date, time and place of the rearranged meeting shall, if practicable, also be placed in at least two national newspapers in the United Kingdom. Notice of the business to be transacted at such rearranged meeting shall not be required. If a meeting is rearranged in this way, the appointment of a proxy will be valid if it is received as required by these articles not less than 48 hours before the time appointed for holding the rearranged meeting. The board may also postpone or move the rearranged meeting under this article. PROCEEDINGS AT GENERAL MEETINGS 49. QUORUM 49.1 No business shall be transacted at any general meeting unless a quorum is present when the meeting proceeds to business, but the absence of a quorum shall not preclude the choice or appointment of a chair of the meeting which shall not be treated as part of the business of the meeting. Save as otherwise provided by these articles, two members present in person or by proxy and entitled to vote shall be a quorum for all purposes. A shareholder which is a company is to be considered present if it is represented by a duly authorised representative. 49.2 If the directors so determine, any or all members (or their proxies) may participate in a general meeting by means of a conference telephone, video teleconference equipment or any communication equipment which allows all persons participating in the meeting to speak to and hear each other. A person so participating shall be deemed to be present in person at the meeting and shall be entitled to vote or be counted in a quorum accordingly. A meeting which takes place by conference telephone, video teleconference or other such communication equipment will be treated as taking place at the place where the chair is. 50. PROCEDURE IF QUORUM NOT PRESENT If within thirty minutes (or such longer time not exceeding one hour as the chair of the meeting may decide to wait) after the time appointed for the commencement of the meeting a quorum is not present, or if during the meeting a quorum ceases to be present, the meeting: Â 15 (a) if convened by or upon the requisition of members, shall be dissolved; and (b) in any other case, it shall stand adjourned to such other day (being not less than ten days later, excluding the day on which the meeting is adjourned and the day for which it is reconvened) and at such other time or place as the chair of the meeting may decide. At any adjourned meeting one member present in person or by proxy and entitled to vote (whatever the number of shares held by such person) shall be a quorum and any notice of an adjourned meeting shall state that one member present in person or by proxy and entitled to vote (whatever the number of shares held by such person) shall be a quorum. 51. SECURITY ARRANGEMENTS The board may take any action and may put in place any arrangements, both before and during any meeting, that they consider appropriate for the proper and orderly conduct of the general meeting and the safety of people attending it. This authority includes power to refuse entry to, or to remove from meetings, any person who fails to comply with such arrangements. 52. CHAIR OF GENERAL MEETING The chair (if any) of the board or, in their absence, the deputy chair (if any) shall preside as chair at every general meeting. If there is no chair or deputy chair, or if at any meeting neither the chair nor any deputy chair is present within thirty minutes after the time appointed for the commencement of the meeting, or if neither the chair nor any deputy chair is willing to act as chair, the directors present shall choose one of their number to act, or if one director only is present such person shall preside as chair of the meeting if willing to act. If no director is present, or if each of the directors present declines to take the chair, the persons present and entitled to vote shall appoint one of their number to be chair of the meeting. Nothing in these articles shall restrict or exclude any of the powers or rights of a chair of a meeting which are given by law. 53. ORDERLY CONDUCT The chair of the meeting shall take such action or give directions for such action to be taken as such person thinks fit to promote the orderly conduct of the business of the meeting as laid down in the notice of the meeting. The chair's decision on points of order, matters of procedure or arising incidentally from the business of the meeting shall be final as shall be such person's determination as to whether any point or matter is of such a nature. 54. ENTITLEMENT TO ATTEND AND SPEAK Each director shall be entitled to attend and speak at any general meeting of the company. The chair of the meeting may invite any person to attend and speak at any general meeting of the company where such person considers that this will assist in the deliberations of the meeting. 55. ADJOURNMENTS The chair of the meeting may at any time without the consent of the meeting adjourn any meeting (whether or not it has commenced or a quorum is present) either sine die or to another time or place where it appears to such person that (a) the members entitled to vote and wishing to attend cannot be conveniently accommodated in the place appointed for the meeting (b) the conduct of persons present prevents or is likely to prevent the orderly continuation of business or (c) an adjournment is otherwise necessary so that the business of the meeting may be properly conducted. In addition, the chair of the meeting may at any time with the consent of any meeting at which a quorum is present (and shall if so directed by the meeting) adjourn the meeting either sine die or to another time or place. When a meeting is adjourned sine die the Â 16 time and place for the adjourned meeting shall be fixed by the board. No business shall be transacted at any adjourned meeting except business which might properly have been transacted at the meeting had the adjournment not taken place. Any meeting may be adjourned more than once. 56. NOTICE OF ADJOURNMENT If the continuation of an adjourned meeting is to take place three months or more after it was adjourned or if business is to be transacted at an adjourned meeting the general nature of which was not stated in the notice of the original meeting, notice of the adjourned meeting shall be given as in the case of an original meeting. Except as provided in this article, it shall not be necessary to give any notice of an adjourned meeting or of the business to be transacted at an adjourned meeting. AMENDMENTS 57. AMENDMENTS TO RESOLUTIONS In the case of a resolution duly proposed as a special resolution no amendment thereto (other than an amendment to correct a patent error) may be considered or voted upon and in the case of a resolution duly proposed as an ordinary resolution no amendment thereto (other than an amendment to correct a patent error) may be considered or voted upon unless either at least two working days prior to the date appointed for holding the meeting or adjourned meeting at which such ordinary resolution is to be proposed notice in writing of the terms of the amendment and intention to move the same has been received by the company at its office or the chair of the meeting in their absolute discretion decides that it may be considered or voted upon. With the consent of the chair of the meeting, an amendment may be withdrawn by its proposer before it is put to the vote. 58. AMENDMENTS RULED OUT OF ORDER If an amendment shall be proposed to any resolution under consideration but shall be ruled out of order by the chair of the meeting the proceedings on the substantive resolution shall not be invalidated by any error in such ruling. VOTING 59. VOTES OF MEMBERS Subject to any special terms as to voting upon which any shares may be issued or may at the relevant time be held and to any other provisions of these articles, members shall be entitled to vote at a general meeting as provided in the Companies Acts. Where a proxy is given discretion as to how to vote on a show of hands this will be treated as an instruction by the relevant shareholder to vote in the way in which the proxy decides to exercise that discretion. 60. METHOD OF VOTING 60.1 At any general meeting, a resolution put to the vote of the meeting shall be decided on a show of hands unless (before or on the declaration of the result of the show of hands) a poll is demanded. Subject to the Companies Acts, a poll may be demanded by: (a) the chair of the meeting; or (b) at least five members present in person or by proxy and entitled to vote on the resolution; or Â 17 (c) any member or members present in person or by proxy and representing in the aggregate not less than one tenth of the total voting rights of all the members having the right to attend and vote on the resolution; or (d) any member or members present in person or by proxy and holding shares conferring a right to attend and vote on the resolution, being shares on which there have been paid up sums in the aggregate equal to not less than one tenth of the total sum paid up on all the shares conferring that right. 60.2 The chair of the meeting can also demand a poll before a resolution is put to the vote on a show of hands. 60.3 Unless a poll is so demanded and the demand is not withdrawn, a declaration by the chair of the meeting that a resolution on a show of hands has been carried or carried unanimously or by a particular majority or not carried by a particular majority or lost shall be conclusive evidence of the fact without proof of the number or proportion of the votes recorded for or against the resolution. 61. PROCEDURE IF POLL DEMANDED If a poll is properly demanded, it shall be taken in such manner as the chair of the meeting shall direct. The result of the poll shall be deemed to be the resolution of the meeting at which the poll was demanded. 62. WHEN POLL TO BE TAKEN A poll demanded on the election of a chair of the meeting, or on a question of adjournment, shall be taken forthwith. A poll demanded on any other question shall be taken either forthwith or on such date (being not later than 30 days after the date of the demand) and at such time and place as the chair of the meeting shall direct. It shall not be necessary (unless the chair of the meeting otherwise directs) for notice to be given of a poll. 63. CONTINUANCE OF OTHER BUSINESS AFTER POLL DEMAND The demand for a poll (other than on the election of a chair of the meeting or on a question of adjournment) shall not prevent the continuance of a meeting for the transaction of any business other than the question on which the poll was demanded, and it may be withdrawn with the consent of the chair of the meeting at any time before the close of the meeting or the taking of the poll, whichever is the earlier, and in that event shall not invalidate the result of a show of hands declared before the demand was made. 64. VOTES OF JOINT HOLDERS In the case of joint holders of a share the vote of the senior who tenders a vote, whether in person or by proxy, shall be accepted to the exclusion of the votes of the other joint holders and, for this purpose, seniority shall be determined by the order in which the names stand in the register in respect of the joint holding. 65. VOTING ON BEHALF OF INCAPABLE MEMBER A member in respect of whom an order has been made by any competent court or official on the ground that such person is or may be suffering from mental disorder or is otherwise incapable of managing their affairs may vote at any general meeting of the company and may exercise any other right conferred by membership in relation to general meetings or upon a poll by or through any person authorised in such circumstances to do so on their behalf (and that person may vote by proxy), provided that evidence to the satisfaction of the board of the authority of the person claiming to exercise the right to vote or such other right has been Â 18 received by the company not later than the last time at which proxy forms should have been received in order to be valid for use at that meeting or on the holding of that poll. 66. NO RIGHT TO VOTE WHERE SUMS OVERDUE ON SHARES No member shall, unless the board otherwise decides, be entitled in respect of any share held by such person to attend or vote (either personally or by proxy) at any general meeting of the company or upon a poll or to exercise any other right conferred by membership in relation to general meetings or polls unless all calls or other sums presently payable by such person in respect of that share have been paid. 67. OBJECTIONS OR ERRORS IN VOTING If: (a) any objection shall be raised to the qualification of any voter, or (b) any votes have been counted which ought not to have been counted or which might have been rejected, or (c) any votes are not counted which ought to have been counted, the objection or error shall not vitiate the decision of the meeting or adjourned meeting or poll on any resolution unless it is raised or pointed out at the meeting or, as the case may be, the adjourned meeting or poll at which the vote objected to is given or tendered or at which the error occurs. Any objection or error shall be referred to the chair of the meeting and shall only vitiate the decision of the meeting on any resolution if the chair decides that the same may have affected the decision of the meeting. The decision of the chair on such matters shall be conclusive. APPROVED DEPOSITARIES 68. MEANING OF APPROVED DEPOSITARY 68.1 In these articles, unless the context otherwise requires, â€œApproved Depositaryâ€ means a person approved by the board and appointed: (a) to hold the company's shares or any rights or interests in any of the company's shares; and (b) to issue securities, documents of title or other documents which evidence that the holder of them owns or is entitled to receive the shares, rights or interests held by the Approved Depository, and shall include a nominee acting for a person appointed to do these things. 68.2 The trustees of any scheme or arrangements for or principally for the benefit of employees of the company and its associated companies will be deemed to be an Approved Depositary for the purposes of these articles unless the board resolves otherwise. 68.3 References in these articles to an Approved Depositary or to shares held by it refer only to an Approved Depositary and to its shares held in its capacity as an Approved Depositary. 69. APPOINTMENT OF APPOINTED PROXIES Subject to these articles and to applicable law, an Approved Depositary may appoint as its proxy or proxies in relation to any ordinary shares which it holds, anyone it thinks fit and may determine the manner and terms of any such appointment. Each appointment must state the Â 19 number and class of shares to which it relates and the total number of shares of each class in respect of which appointments exist at any one time, which must not exceed the total number of shares of each such class registered in the name of the Approved Depositary or its nominee (the "Depositary Shares") at that time. 70. REGISTER OF APPOINTED PROXIES 70.1 The Approved Depositary must keep a register (the â€œProxy Registerâ€) of each person it has appointed as a proxy under Article 69 (an â€œAppointed Proxyâ€) and the number of Depositary Shares (such person's â€œAppointed Numberâ€) to which the appointment relates. The directors will determine the requisite information to be recorded in the Proxy Register relating to each Appointed Proxy. 70.2 Any person authorised by the company may inspect the Proxy Register during usual business hours and the Approved Depositary will give such person any information which such person requests as to the contents of the Proxy Register. 71. APPROVED DEPOSITARIES' ATTENDANCE AT GENERAL MEETINGS 71.1 An Appointed Proxy may only attend a general meeting if such person provides the company with written evidence of their appointment as such. This must be in a form agreed between the directors and the Approved Depositary. 71.2 Subject to applicable law and to these articles, and so long as the Approved Depositary or a nominee of the Approved Depositary holds at least their Appointed Number of shares, an Appointed Proxy is entitled to attend a general meeting which holders of that class of shares are entitled to attend, and such person is entitled to the same rights, and subject to the same obligations, in relation to their Appointed Number of Depositary Shares as if such person had been validly appointed in accordance with Articles 74 to 77 by the registered holder of these shares as its proxy in relation to those shares. 72. PROXIES OF APPOINTED PROXIES An Appointed Proxy may appoint another person as their proxy for their Appointed Number of Depositary Shares, provided the appointment is made and deposited in accordance with Articles 74 to 77. These articles apply to that appointment and to the person so appointed as though those Depositary Shares were registered in the name of the Appointed Proxy and the appointment was made by such person in that capacity. The directors may require such evidence as they think appropriate to decide that such appointment is effective. 73. IDENTIFYING APPOINTED PROXIES 73.1 For the purposes of determining who is entitled as an Appointed Proxy to exercise the rights conferred by Articles 71 and 72 and the number of Depositary Shares in respect of which a person is to be treated as having been appointed as an Appointed Proxy for these purposes, the Approved Depositary may decide that the Appointed Proxies who are so entitled are the persons entered in the Proxy Register at a time and on a date (a â€œRecord Timeâ€) agreed between the Approved Depositary and the company. 73.2 When a Record Date is decided for a particular purpose: (a) an Appointed Proxy is to be treated as having been appointed for that purpose for the number and class of shares appearing against their name in the Proxy Register as at the Record Time; and (b) changes to entries in the Proxy Register after the Record Time will be ignored for this purpose. Â 20 73.3 Except for recognising the rights given in relation to General Meetings by appointments made by Appointed Proxies pursuant to Article 72, the company is entitled to treat any person entered in the Proxy Register as an Appointed Proxy as the only person (other than the Approved Depositary) who has any interest in the Depositary Shares in respect of which the Appointed Proxy has been appointed. 73.4 At a general meeting, the chair has the final decision as to whether any person has the right to vote or exercise any other right relating to any Depositary Shares. In any other situation, the directors have the final decision as to whether any person has the right to exercise any right relating to any Depositary Shares. PROXIES 74. APPOINTMENT OF PROXIES 74.1 The appointment of a proxy shall be in writing signed by the appointor or their duly authorized attorney or, if the appointor is a corporation, shall either be executed under its seal or signed by an officer, attorney or other person authorised to sign it. If a member appoints more than one proxy and the proxy forms appointing those proxies would give those proxies the apparent right to exercise votes on behalf of the member in a general meeting over more shares than are held by the member, then each of those proxy forms will be invalid and none of the proxies so appointed will be entitled to attend, speak or vote at the relevant general meeting. If a member appoints more than one proxy, such person must ensure that no more than one proxy is appointed in relation to any share. 74.2 Receipt of Proxies (a) The appointment of a proxy must: (i) (in the case of an appointment made in hard copy form, be received at the office (or such other place as may be specified by the company for the receipt of appointments of proxy in hard copy form) not less than 48 hours (or such shorter time as the board may determine) before the time appointed for holding the meeting or adjourned meeting at which the person named in the appointment proposes to vote together with (if required by the board) any authority under which it is made or a copy of the authority, certified notarially or in accordance with the Powers of Attorney Act 1971 or in some other manner approved by the board; (ii) in the case of an appointment made in electronic form, be received at the address specified by the company for the receipt of appointments of proxy by electronic means not less than 48 hours (or such shorter time as the board may determine) before the time appointed for holding the meeting or adjourned meeting at which the person named in the appointment proposes to vote. Any authority pursuant to which such an appointment is made or a copy of the authority, certified notarially or in accordance with the Powers of Attorney Act 1971 or in some other manner approved by the board, must, if required by the board, be received at such address or at the office (or such other place in the United Kingdom as may be specified by the company for the receipt of such documents) not less than 48 hours (or such shorter time as the board may determine) before the time appointed for holding the meeting or adjourned meeting at which the person named in the appointment proposes to vote; (iii) in the case of an appointment delivered by an Approved Depositary (except in respect of a proxy appointed in accordance with Article 69) be delivered to the Â 21 appropriate place referred to in (i) or (ii) above, as appropriate, depending on whether the appointment is made in hard copy or electronic form; (iv) in the case of a poll taken more than 48 hours subsequently to the date of the meeting or adjourned meeting, be received as aforesaid not less than 24 hours (or such shorter time as the board may determine) before the time appointed for the taking of the poll; and (v) in the case of a poll taken not more than 48 hours subsequently to the date of the meeting or adjourned meeting, be received as aforesaid by the time at which the poll was demanded (or at such later time as the board may determine), and an appointment of a proxy which is not, or in respect of which the authority or copy thereof is not, received in a manner so permitted shall be invalid. When two or more valid but differing appointments of a proxy are received in respect of the same share for use at the same meeting or poll, the one which is last received (regardless of its date or of the date of its signature) shall be treated as replacing and revoking the others as regards that share; if the company is unable to determine which was last received, none of them shall be treated as valid in respect of that share. The appointment of a proxy shall not preclude a member from attending and voting in person at the meeting or poll concerned. The proceedings at a general meeting shall not be invalidated where an appointment of a proxy in respect of that meeting is sent in electronic form as provided in these articles, but because of a technical problem it cannot be read by the recipient. 74.3 The board may at its discretion determine that in calculating the periods referred to in this article no account shall be taken of any part of a day that is not a working day. 75. MAXIMUM VALIDITY OF PROXY No appointment of a proxy shall be valid after 12 months have elapsed from the date of its receipt save that, unless the contrary is stated in it, an appointment of a proxy shall be valid for use at an adjourned meeting or a poll after a meeting or an adjourned meeting even after 12 months if it was valid for the original meeting. 76. FORM OF PROXY The appointment of a proxy shall be in any usual form or in such other form as the board may approve. The appointment of a proxy shall be deemed to confer authority to demand or join in demanding a poll and to vote on any amendment of a resolution put to, or any other business which may properly come before, the meeting for which it is given as the proxy thinks fit The appointment of a proxy shall, unless the contrary is stated in it, be valid as well for any adjournment of the meeting as for the meeting to which it relates. 77. CANCELLATION OF PROXY'S AUTHORITY A vote given or poll demanded by a proxy or by the duly authorised representative of a corporation shall be valid notwithstanding the previous determination of the authority of the person voting or demanding a poll, unless notice in writing of the determination was received by the company at the office (or such other place or address as was specified by the company for the receipt of appointments of proxy) not later than the last time at which an appointment of a proxy should have been received in order to be valid for use at the meeting or on the holding of the poll at which the vote was given or the poll demanded. Â 22 CLASS MEETINGS 78. SEPARATE GENERAL MEETINGS The provisions of these articles relating to general meetings shall apply, with any necessary modifications to any separate general meeting of the holders of shares of a class convened otherwise than in connection with the variation or abrogation of the rights attached to the shares of that class. For this purpose, a general meeting at which no holder of a share other than an ordinary share may, in their capacity as a member, attend or vote shall also constitute a separate general meeting of the holders of the ordinary shares. APPOINTMENT, RETIREMENT AND REMOVAL OF DIRECTORS 79. NUMBER OF DIRECTORS Unless otherwise determined by ordinary resolution of the company, the number of directors (disregarding alternate directors) shall be not less than two and not more than ten. 80. DIRECTORS' SHAREHOLDING QUALIFICATION No shareholding qualification for directors shall be required. 81. POWER OF COMPANY TO APPOINT DIRECTORS Subject to the provisions of these articles and the Companies Acts, the company may by ordinary resolution appoint any person who is willing to act to be a director, either to fill a vacancy or as an addition to the existing board, but so that the total number of directors shall not at any time exceed any maximum number fixed by or in accordance with these articles. 82. POWER OF BOARD TO APPOINT DIRECTORS Subject to the provisions of these articles, the board may appoint any person who is willing to act to be a director, either to fill a vacancy or as an addition to the existing board, but so that the total number of directors shall not at any time exceed any maximum number fixed by or in accordance with these articles. Any director so appointed shall retire at the next annual general meeting and shall then be eligible for re-appointment. A director who retires in this way is then eligible for re-appointment but is not taken into account when deciding which directors should retire by rotation at the annual general meeting. 83. RETIREMENT OF DIRECTORS BY ROTATION At every annual general meeting at least one third of the current directors must retire as directors by rotation. Where the number of directors is not three or a number divisible by three, the minimum number of directors to retire will be the number which is nearest to and less than one third. If there are fewer than three directors, each director will retire. 84. FILLING VACANCIES Subject to the provisions of these articles, at the meeting at which a director retires the company can pass an ordinary resolution to re-appoint the director or to elect some other eligible person in their place. 85. POWER OF REMOVAL BY SPECIAL RESOLUTION In addition to any power of removal conferred by the Companies Acts, the company may by special resolution remove any director before the expiration of their period of office and may (subject to these articles) by ordinary resolution appoint another person who is willing to act to be a director in their place. Â 23 86. PERSONS ELIGIBLE AS DIRECTORS No person other than a director retiring at the general meeting shall be appointed or re- appointed a director at any general meeting unless: (a) such person is recommended by the board; or (b) not less than seven nor more than 42 days before the day appointed for the meeting, notice in writing by a member qualified to vote at the meeting (not being the person to be proposed) has been given to the secretary of the intention to propose that person for appointment or re-appointment together with confirmation in writing by that person of their willingness to be appointed or re-appointed. 87. POSITION OF RETIRING DIRECTORS A director who retires at an annual general meeting (whether by rotation or otherwise) may, if willing to continue to act, be re-appointed. If such person is re-appointed such person is treated as continuing in office throughout. If such person is not re-appointed, such person shall retain office until the end of the meeting or (if earlier) when a resolution is passed to appoint someone in their place or when a resolution to re-appoint the director is put to the meeting and lost. 88. VACATION OF OFFICE BY DIRECTORS Without prejudice to the provisions for retirement (by rotation or otherwise) contained in these articles, the office of a director shall be vacated if: (a) such person resigns their office by notice in writing sent to or received at the office or at an address specified by the company for the purposes of communication by electronic means or tendered at a meeting of the board; or (b) by notice in writing sent to or received at the office or at an address specified by the company for the purposes of communication by electronic means or tendered at a meeting of the board, such person offers to resign and the board resolves to accept such offer; or (c) by notice in writing sent to or received at the office or at an address specified by the company for the purposes of communication by electronic means or tendered at a meeting of the board, their resignation is requested by all of the other directors and all of the other directors are not less than three in number; or (d) such person is or has been suffering from mental ill health and the board resolves that their office is vacated; or (e) such person is absent without the permission of the board from meetings of the board (whether or not an alternate director appointed by such person attends) for six consecutive months and the board resolves that their office is vacated; or (f) such person becomes bankrupt or makes an arrangement or composition with their creditors generally; or (g) such person is prohibited by law from being a director; or (h) such person ceases to be a director by virtue of the Companies Acts or is removed from office pursuant to these articles. If the office of a director is vacated for any reason, such person shall cease to be a member of any committee or sub-committee of the board. Â 24 89. EXECUTIVE DIRECTORS The board or any committee authorised by the board may from time to time appoint one or more directors to hold any employment or executive office with the company for such period and upon such other terms as the board or any committee authorised by the board may in its discretion decide and may revoke or terminate any appointment so made. Any revocation or termination of the appointment shall be without prejudice to any claim for damages that the director may have against the company, or the company may have against the director, for any breach of any contract of service between such director and the company which may be involved in the revocation or termination. A director so appointed shall receive such remuneration (whether by way of salary, commission, participation in profits or otherwise) as the board or any committee authorised by the board may decide, and either in addition to or in lieu of their remuneration as a director. FEES, REMUNERATION, EXPENSES AND PENSIONS 90. DIRECTORS' FEES Each of the directors shall be paid a fee at such rate as may from time to time be determined by the board provided that the aggregate of all fees so paid to directors (excluding amounts payable under any other provision of these articles but including any fees in respect of board committee work) shall not exceed Â£500,000 per annum or such higher amount as may from time to time be decided by ordinary resolution of the company. 91. ADDITIONAL REMUNERATION Any director who performs services which in the opinion of the board or any committee authorised by the board go beyond the ordinary duties of a director may be paid such extra remuneration (whether by way of salary, commission, participation in profits or otherwise) as the board or any committee authorised by the board may in its discretion decide in addition to any remuneration provided for by or pursuant to any other article. 92. EXPENSES Each director may be paid their reasonable traveling, hotel, and incidental expenses of attending and returning from meetings of the board or committees of the board or general meetings of the company or any other meeting which as a director such person is entitled to attend and shall be paid all other costs and expenses properly and reasonably incurred by such director in the conduct of the company's business or in the discharge of their duties as a director. The company may also fund a director's or former director's expenditure for the purposes permitted under the Companies Acts and may do anything to enable a director or former director to avoid incurring such expenditure as provided in the Companies Acts. 93. PENSIONS AND GRATUITIES FOR DIRECTORS The board or any committee authorised by the board may exercise all the powers of the company to provide benefits, either by the payment of gratuities or pensions or by insurance or in any other manner whether similar to the foregoing or not, for any director or former director or the relations, or dependents of, or persons connected to, any director or former director. No director or former director shall be accountable to the company or the members for any benefit provided pursuant to this article and the receipt of any such benefit shall not disqualify any person from being or becoming a director of the company. Â 25 DIRECTORS' INTERESTS 94. CONFLICTS OF INTEREST REQUIRING BOARD AUTHORISATION 94.1 The board may, subject to the quorum and voting requirements set out in this article, authorise any matter which would otherwise involve a director breaching their duty under the Companies Acts to avoid conflicts of interest (â€œConflictâ€). 94.2 A director seeking authorisation in respect of a Conflict shall declare to the board the nature and extent of their interest in a Conflict as soon as is reasonably practicable. The director shall provide the board with such details of the relevant matter as are necessary for the board to decide how to address the Conflict together with such additional information as may be requested by the board. 94.3 Any director (including the relevant director) may propose that the relevant director be authorised in relation to any matter the subject of a Conflict. Such proposal and any authority given by the board shall be effected in the same way that any other matter may be proposed to and resolved upon by the board under the provisions of these articles save that: (a) the relevant director and any other director with a similar interest shall not count towards the quorum nor vote on any resolution giving such authority; and (b) the relevant director and any other director with a similar interest may, if the other members of the board so decide, be excluded from any board meeting while the Conflict is under consideration. 94.4 Where the board gives authority in relation to a Conflict, or where any of the situations described in Article 95.2 apply in relation to a director (â€œRelevant Situationâ€): (a) the board may (whether at the relevant time or subsequently) (a) require that the relevant director is excluded from the receipt of information, the participation in discussion and/or the making of decisions (whether at meetings of the board or otherwise) related to the Conflict or Relevant Situation; and (b) impose upon the relevant director such other terms for the purpose of dealing with the Conflict or Relevant Situation as it may determine; (b) the relevant director will be obliged to conduct himself in accordance with any terms imposed by the board in relation to the Conflict or Relevant Situation; (c) the board may provide that where the relevant director obtains (otherwise than through their position as a director of the company) information that is confidential to a third party, the director will not be obliged to disclose that information to the company, or to use or apply the information in relation to the company's affairs, where to do so would amount to a breach of that confidence; (d) the terms of the authority shall be recorded in writing (but the authority shall be effective whether or not the terms are so recorded); and (e) the board may revoke or vary such authority at any time, but this will not affect anything done by the relevant director prior to such revocation in accordance with the terms of such authority. Â 26 95. OTHER CONFLICTS OF INTEREST 95.1 If a director is in any way directly or indirectly interested in a proposed contract with the company or a contract that has been entered into by the company, such person must declare the nature and extent of that interest to the directors in accordance with the Companies Acts. 95.2 Provided such person has declared the nature and extent of their interest in accordance with Article 95.1, a director may: (a) be party to, or otherwise interested in, any contract with the company or in which the company has a direct or indirect interest; (b) hold any other office or place of profit with the company (except that of auditor) in conjunction with their office of director for such period and upon such terms, including as to remuneration, as the board may decide; (c) act by himself or through a firm with which such person is associated in a professional capacity for the company or any other company in which the company may be interested (otherwise than as auditor); (d) be or become a director or other officer of, or employed by or otherwise be interested in any holding company or subsidiary company of the company or any other company in which the company may (directly or indirectly) be interested; and (e) be or become a director of any other company in which the company does not have a direct or indirect interest, and which cannot reasonably be regarded as giving rise to a conflict of interest at the time of their appointment as a director of that other company. 96. BENEFITS A director shall not, by reason of their office or of the fiduciary relationship thereby established, be liable to account to the company or the members for any remuneration, profit or other benefit realised by reason of their having any type of interest authorised under Article 94.1 or permitted under Article 95.2 and no contract shall be liable to be avoided on the grounds of a director having any type of interest authorised under Article 94.1 or permitted under Article 95.2. 97. QUORUM AND VOTING REQUIREMENTS 97.1 A director shall not vote on or be counted in the quorum in relation to any resolution of the board concerning their own appointment, or the settlement or variation of the terms or the termination of their own appointment, as the holder of any office or place of profit with the company or any other company in which the company is interested. 97.2 Where proposals are under consideration concerning the appointment, or the settlement or variation of the terms or the termination of the appointment, of two or more directors to offices or places of profit with the company or any other company in which the company is interested, a separate resolution may be put in relation to each director and in that case each of the directors concerned shall be entitled to vote and be counted in the quorum in respect of each resolution unless it concerns their own appointment or the settlement or variation of the terms or the termination of their own appointment or the appointment of another director to an office or place of profit with a company in which the company is interested and the director seeking to vote or be counted in the quorum has a Relevant Interest in it. 97.3 A director shall not vote on, or be counted in the quorum in relation to, any resolution of the board in respect of any contract in which such person has an interest and, if such person shall do so, their vote shall not be counted, but this prohibition shall not apply to any resolution Â 27 where that interest cannot reasonably be regarded as likely to give rise to a conflict of interest or where that interest arises only from one or more of the following matters: (a) the giving to such director of any guarantee, indemnity, or security in respect of money lent or obligations undertaken by such director or by any other person at the request of or for the benefit of the company or any of its subsidiary undertakings; (b) the giving to a third party of any guarantee, indemnity, or security in respect of a debt or obligation of the company or any of its subsidiary undertakings for which such person himself has assumed responsibility in whole or in part under a guarantee or indemnity or by the giving of security; (c) the giving to such director of any other indemnity where all other directors are also being offered indemnities on substantially the same terms; (d) the funding by the company of their expenditure on defending proceedings or the doing by the company of anything to enable such director to avoid incurring such expenditure where all other directors are being offered substantially the same arrangements; (e) where the company or any of its subsidiary undertakings is offering securities in which offer the director is or may be entitled to participate as a holder of securities or in the underwriting or sub-underwriting of which the director is to participate; (f) any contract in which such person is interested by virtue of their interest in shares or debentures or other securities of the company or by reason of any other interest in or through the company; (g) any contract concerning any other company (not being a company in which the director has a Relevant Interest) in which such person is interested directly or indirectly whether as an officer, shareholder, creditor or otherwise howsoever; (h) any contract concerning the adoption, modification or operation of a pension fund, superannuation or similar scheme or retirement, death or disability benefits scheme, share incentive scheme or employees' share scheme (including in respect of any employee benefit trust established by the company or any of its subsidiary undertakings) which relates to directors and employees of the company or of any of its subsidiary undertakings and which gives the director benefits which are also generally given to employees to whom the scheme relates; (i) any contract for the benefit of employees of the company or of any of its subsidiary undertakings under which such person benefits in a similar manner to the employees and which does not accord to any director as such any privilege or advantage not accorded to the employees to whom the contract relates; and any contract for the purchase or maintenance of insurance against any liability for, or for the benefit of, any director or directors or for, or for the benefit of, persons who include directors. 97.4 A company shall be deemed to be one in which a director has a â€œRelevant Interestâ€ if and so long as (but only if and so long as) such person is to their knowledge (either directly or indirectly) the holder of or beneficially interested in one per cent. or more of any class of the equity share capital of that company (calculated exclusive of any shares of that class in that company held as treasury shares) or of the voting rights available to members of that company. In relation to an alternate director, an interest of their appointor shall be treated as an interest of the alternate director without prejudice to any interest which the alternate director has otherwise. Â 28 97.5 Where a company in which a director has a Relevant Interest is interested in a contract, such person also shall be deemed interested in that contract. 97.6 If any question shall arise at any meeting of the board as to the interest of a director (other than the chair of the meeting) in a contract and whether it is likely to give rise to a conflict of interest or as to the entitlement of any director (other than the chair of the meeting) to vote or be counted in the quorum and the question is not resolved by their voluntarily agreeing to abstain from voting or not to be counted in the quorum, the question shall be referred to the chair of the meeting and their ruling in relation to the director concerned shall be conclusive except in a case where the nature or extent of the director's interest (so far as it is known to such director) has not been fairly disclosed to the board. If any question shall arise in respect of the chair of the meeting, the question shall be decided by a resolution of the board (for which purpose the chair of the meeting shall be counted in the quorum but shall not vote on the matter) and the resolution shall be conclusive except in a case where the nature or extent of the interest of the chair of the meeting (so far as it is known to such director) has not been fairly disclosed to the board. 97.7 Subject to these articles, the board may also cause any voting power conferred by the shares in any other company held or owned by the company or any power of appointment to be exercised in such manner in all respects as it thinks fit, including the exercise of the voting power or power of appointment in favour of the appointment of the directors or any of them as directors or officers of the other company, or in favour of the payment of remuneration to the directors or officers of the other company. Subject to these articles, a director may also vote on and be counted in the quorum in relation to any of such matters. 98. GENERAL 98.1 References in Articles 94 to 97 to: (a) a contract include references to any proposed contract and to any transaction or arrangement or proposed transaction or arrangement whether or not constituting a contract; and (b) a conflict of interest include a conflict of interest and duty and a conflict of duties. 98.2 The company may by ordinary resolution suspend or relax the provisions of Articles 94 to 97 to any extent or ratify any contract not properly authorised by reason of a contravention of any of the provisions of Articles 94 to 97. POWERS AND DUTIES OF THE BOARD 99. GENERAL POWERS OF COMPANY VESTED IN BOARD Subject to the provisions of the Companies Acts and these articles and to any directions given by the company in general meeting by special resolution, the business of the company shall be managed by the board which may exercise all the powers of the company whether relating to the management of the business of the company or not. No alteration of these articles and no special resolution shall invalidate any prior act of the board which would have been valid if that alteration had not been made or that resolution had not been passed. The powers given by this article shall not be limited by any special power given to the board by any other article. 100. BORROWING POWERS Subject to the Companies Acts, the board may exercise all the powers of the company to borrow money; mortgage or charge all or any part of the undertaking, property, and assets (present and future) and uncalled capital of the company; create and issue debentures and Â 29 other securities; indemnify and guarantee; and give security, whether outright or as collateral security, for any debt, liability, or obligation of the company or of any third party. 101. AGENTS 101.1 The board may appoint anyone as the company's attorney by granting a power of attorney or by authorising them in some other way. Attorneys can either be appointed directly by the board or the board can give someone else the power to select attorneys. The board or the persons who are authorised by it to select attorneys can decide on the purposes, powers, authorities, and discretions of attorneys. But they cannot give an attorney any power, authority, or discretion which the board does not have under these articles. 101.2 The board may decide how long a power of attorney will last for and attach any conditions to it. The power of attorney can include any provisions which the board decides on for the protection and convenience of anybody dealing with the attorney. The power of attorney can allow the attorney to grant any or all of their power, authority, or discretion to any other person. 101.3 The board may: (a) delegate any of its authority, powers or discretions to any manager or agent of the company; (b) allow managers or agents to delegate to another person; (c) remove any people it has appointed in any of these ways; and (d) cancel or change anything that it has delegated, although this will not affect anybody who acts in good faith who has not had any notice of any cancellation or change. 101.4 Any appointment or delegation by the board which is referred to in this article can be on any conditions decided on by the board. 101.5 The ability of the board to delegate under this article applies to all its powers and is not limited because certain articles refer to powers being exercised by the board or by a committee authorised by the board while other articles do not. 102. DELEGATION TO INDIVIDUAL DIRECTORS The board may entrust to and confer upon any director any of its powers, authorities, and discretions (with power to sub-delegate) upon such terms and conditions and with such restrictions as it thinks fit, and either collaterally with, or to the exclusion of, its own powers, authorities and discretions and may from time to time revoke or vary all or any of them but no person dealing in good faith and without notice of the revocation or variation shall be affected by it. The power to delegate contained in this article shall be effective in relation to the powers, authorities, and discretions of the board generally and shall not be limited by the fact that in certain articles, but not in others, express reference is made to particular powers, authorities or discretions being exercised by the board or by a committee authorised by the board. 103. OFFICIAL SEALS The company may exercise all the powers conferred by the Companies Acts with regard to having official seals and those powers shall be vested in the board. 104. REGISTERS Subject to the provisions of the Companies Acts, the company may keep an overseas or local or other register in any place and the board may make and vary such regulations as it may think fit respecting the keeping of the register. Â 30 105. PROVISION FOR EMPLOYEES The board may exercise any power conferred by the Companies Acts to make provision for the benefit of persons employed or formerly employed by the company or any of its subsidiaries in connection with the cessation or the transfer to any person of the whole or part of the undertaking of the company or that subsidiary. PROCEEDINGS OF THE BOARD 106. BOARD MEETINGS The board may meet for the despatch of business, adjourn, and otherwise regulate its meetings as it thinks fit. A director at any time may, and the secretary on the requisition of a director at any time shall, summon a board meeting. 107. NOTICE OF BOARD MEETINGS Notice of a board meeting shall be deemed to be properly given to a director if it is given to such director personally or by word of mouth or sent in writing to such director at their last known address or any other address given by such director to the company for this purpose. A director may waive their right to receive notice of any meeting either prospectively or retrospectively and any retrospective waiver shall not affect the validity of the meeting or of any business conducted at the meeting. 108. QUORUM The quorum necessary for the transaction of the business of the board may be fixed by the board and, unless so fixed at any other number, shall be two directors. Subject to the provisions of these articles, any director who ceases to be a director at a board meeting may continue to be present and to act as a director and be counted in the quorum until the termination of the board meeting if no other director objects and if otherwise a quorum of directors would not be present. 109. DIRECTORS BELOW MINIMUM THROUGH VACANCIES The continuing directors or a sole continuing director may act notwithstanding any vacancy in their number but, if and so long as the number of directors is reduced below the minimum number fixed by or in accordance with these articles or is below the number fixed by or in accordance with these articles as the quorum or there is only one continuing director, the continuing directors or director may act for the purpose of filling vacancies or of summoning general meetings of the company but not for any other purpose. If there are no directors or director able or willing to act, then any two members (excluding any member holding shares as treasury shares) may summon a general meeting for the purpose of appointing directors. 110. APPOINTMENT OF CHAIR OR DEPUTY CHAIR The board may appoint a director to be the chair or a deputy chair of the board and may at any time remove such director from that office. The chair of the board or failing the chair, a deputy chair shall act as chair at every meeting of the board. If more than one deputy chair is present, they shall agree amongst themselves who is to take the chair or, if they cannot agree, the deputy chair who has been in office as a director longest shall take the chair. But if no chair of the board or deputy chair is appointed, or if at any meeting neither the chair nor any deputy chair is present within thirty minutes after the time appointed for holding the meeting, the directors present may choose one of their number to be chair of the meeting. References in these articles to a deputy chair include, if no one has been appointed to that title, a person appointed to a position with another title which the board designates as equivalent to the position of deputy chair. Â 31 111. COMPETENCE OF MEETINGS A meeting of the board at which a quorum is present shall be competent to exercise all the powers, authorities and discretions vested in or exercisable by the board. 112. VOTING Questions arising at any meeting shall be determined by a majority of votes. In the case of an equality of votes the chair of the meeting shall have a second or casting vote. 113. DELEGATION TO COMMITTEES 113.1 The board may delegate any of its powers, authorities, and discretions (with power to sub- delegate) to any committee, consisting of such person or persons (whether a member or members of its body or not) as it thinks fit, provided that the majority of persons on any committee or sub-committee must be directors. References in these articles to committees include sub-committees permitted under this article. 113.2 Any committee so formed shall, in the exercise of the powers, authorities and discretions so delegated, conform to any regulations which may be imposed on it by the board. The meetings and proceedings of any committee consisting of two or more members shall be governed by the provisions contained in these articles for regulating the meetings and proceedings of the board so far as the same are applicable and are not superseded by any regulations imposed by the board. 113.3 The power to delegate contained in this article shall be effective in relation to the powers, authorities, and discretions of the board generally and shall not be limited by the fact that in certain articles, but not in others, express reference is made to particular powers, authorities or discretions being exercised by the board or by a committee authorised by the board. 114. PARTICIPATION IN MEETINGS BY TELEPHONE All or any of the members of the board may participate in a meeting of the board by means of a conference telephone or any communication equipment which allows all persons participating in the meeting to speak to and hear each other. A person so participating shall be deemed to be present in person at the meeting and shall be entitled to vote and be counted in a quorum accordingly. Any such meeting is deemed to take place at the place where the largest group of participating directors is assembled or, if no such group is readily identifiable, the participating directors may decide that the meeting is to be treated as taking place wherever any of them is. 115. RESOLUTION IN WRITING A resolution in writing signed by all the directors who are at the relevant time entitled to receive notice of a meeting of the board and who would be entitled to vote on the resolution at a meeting of the board (if that number is sufficient to constitute a quorum) shall be as valid and effectual as a resolution passed at a meeting of the board properly called and constituted. The resolution may be contained in one document or in several documents in like form each signed by one or more of the directors concerned. 116. VALIDITY OF ACTS OF BOARD OR COMMITTEE All acts done by the board or by any committee or by any person acting as a director or member of a committee shall, notwithstanding that it is afterwards discovered that there was some defect in the appointment of any member of the board or committee or person so acting or that they or any of them were disqualified from holding office or had vacated office or were not Â 32 entitled to vote, be as valid as if each such member or person had been properly appointed and was qualified and had continued to be a director or member of the committee and had been entitled to vote. SECRETARY 117. APPOINTMENT AND REMOVAL OF THE SECRETARY Subject to the provisions of the Companies Acts, the secretary shall be appointed by the board for such term and upon such conditions as the board may think fit; and any secretary so appointed may be removed by the board. SEALS 118. USE OF SEALS The board shall provide for the custody of every seal of the company. A seal shall only be used by the authority of the board or of a committee of the board authorised by the board in that behalf. Subject as otherwise provided in these articles, and to any resolution of the board or committee of the board dispensing with the requirement for counter-signature on any occasion, any instrument to which the common seal is applied shall be signed by at least one director and the secretary, or by at least two directors or by one director in the presence of a witness who attests the signature or by such other person or persons as the board may approve. Any instrument to which an official seal is applied need not, unless the board otherwise decides or the law otherwise requires, be signed by any person. DIVIDENDS AND OTHER PAYMENTS 119. DECLARATION OF DIVIDENDS BY COMPANY Subject to the provisions of the Companies Acts, the company may by ordinary resolution from time to time declare dividends in accordance with the respective rights of the members, but no dividend shall exceed the amount recommended by the board. 120. PAYMENT OF INTERIM AND FIXED DIVIDENDS BY BOARD Subject to the provisions of the Companies Acts, the board may pay such interim dividends as appear to the board to be justified by the financial position of the company and may also pay any dividend payable at a fixed rate at intervals settled by the board whenever the financial position of the company, in the opinion of the board, justifies its payment. If the board acts in good faith, it shall not incur any liability to the holders of any shares for any loss they may suffer in consequence of the payment of an interim or fixed dividend on any other class of shares ranking pad passu with or after those shares. 121. CALCULATION AND CURRENCY OF DIVIDENDS 121.1 Except in so far as the rights attaching to, or the terms of issue of, any share otherwise provide. (a) all dividends shall be declared and paid according to the amounts paid up on the share in respect of which the dividend is paid, but no amount paid up on a share in advance of calls shall be treated for the purposes of this article as paid up on the share; (b) all dividends shall be apportioned and paid pro rata according to the amounts paid up on the share during any portion or portions of the period in respect of which the dividend is paid; and (c) dividends may be declared or paid in any currency. Â 33 121.2 The board may decide the basis of conversion for any currency conversions that may be required and how any costs involved are to be met. 121.3 The board may also decide that a particular Approved Depositary should be able to receive dividends in a currency other than the currency in which it is declared and may make arrangements accordingly. In particular, if an Approved Depositary has chosen or agreed to receive dividends in another currency, the directors may make arrangements with that Approved Depositary for payment to be made to them for value on the date on which the relevant dividend is paid, or a later date decided on by the directors. 122. AMOUNTS DUE ON SHARES MAY BE DEDUCTED FROM DIVIDENDS The board may deduct from any dividend or other moneys payable to a member by the company on or in respect of any shares all sums of money (if any) presently payable by such person to the company on account of calls or otherwise in respect of shares of the company. Sums so deducted can be used to pay amounts owing to the company in respect of the shares. 123. NO INTEREST ON DIVIDENDS Subject to the rights attaching to, or the terms of issue of, any shares, no dividend, or other moneys payable by the company on or in respect of any share shall bear interest against the company. 124. PAYMENT PROCEDURE Any dividend or other sum payable in cash by the company in respect of a share may be paid by cheque, warrant or similar financial instrument sent by post addressed to the holder at their registered address or, in the case of joint holders, addressed to the holder whose name stands first in the register in respect of the shares at their address as appearing in the register or addressed to such person and at such address as the holder or joint holders may in writing direct. Every cheque, warrant or similar financial instrument shall, unless the holder or joint holders otherwise direct, be made payable to the holder or, in the case of joint holders, to the holder whose name stands first on the register in respect of the shares, and shall be sent at their risk and payment of the cheque, warrant or similar financial instrument by the financial institution on which it is drawn shall constitute a good discharge to the company. In addition, any such dividend or other sum may be paid by any bank or other funds transfer system or such other means including, in respect of uncertificated shares, by means of the facilities and requirements of a relevant system and to or through such person as the holder or joint holders may in writing direct and the company may agree, and the making of such payment shall be a good discharge to the company and the company shall have no responsibility for any sums lost or delayed in the course of payment by any such system or other means or where it has acted on any such directions and accordingly, payment by any such system or other means shall constitute a good discharge to the company. Any one of two or more joint holders may give effectual receipts for any dividends or other moneys payable or property distributable on or in respect of the shares held by them. Where a person is entitled by transmission to a share, any dividend or other sum payable by the company in respect of the share may be paid as if such person were a holder of the share and their address noted in the register were such person's registered address and where two or more persons are so entitled, any one of them may give effectual receipts for any dividends or other moneys payable or property distributable on or in respect of the shares. 125. UNCASHED DIVIDENDS The company may cease to send any cheque, warrant or similar financial instrument through the post or to employ any other means of payment, including payment by means of a relevant system, for any dividend payable on any shares in the company which is normally paid in that manner on those shares if in respect of at least two consecutive dividends payable on those Â 34 shares the cheques, warrants or similar financial instruments have been returned undelivered or remain uncashed during or at the end of the period for which the same are valid or that means of payment has failed. In addition, the company may cease to send any cheque, warrant or similar financial instrument through the post or may cease to employ any other means of payment if, in respect of one dividend payable on those shares, the cheque, warrant or similar financial instrument has been returned undelivered or remains uncashed during or at the end of the period for which the same is valid or that means of payment has failed and reasonable enquiries have failed to establish any new postal address or account of the holder. Subject to the provisions of these articles, the company must recommence sending cheques, warrants or similar financial instruments or employing such other means in respect of dividends payable on those shares if the holder or person entitled by transmission requests such recommencement in writing. 126. FORFEITURE OF UNCLAIMED DIVIDENDS All dividends or other sums payable on or in respect of any shares which remain unclaimed may be invested or otherwise made use of by the board for the benefit of the company until claimed. Any dividend or other sum unclaimed after a period of 12 years from the date when it was declared or became due for payment shall be forfeited and shall revert to the company unless the board decides otherwise and the payment by the board of any unclaimed dividend or other sum payable on or in respect of a share into a separate account shall not constitute the company a trustee in respect of it. 127. DIVIDENDS NOT IN CASH If recommended by the board, the company can pass an ordinary resolution that a dividend be satisfied, and the board can decide that an interim dividend be satisfied, wholly or partly by the distribution of assets, and in particular of paid up shares or debentures of any other company, and where any difficulty arises in regard to the distribution the board may settle it as it thinks expedient, and in particular may authorise any person to sell and transfer any fractions or may ignore fractions altogether, and may fix the value for distribution purposes of any assets or any part thereof to be distributed and may determine that cash shall be paid to any members upon the footing of the value so fixed in order to secure equality of distribution and may vest any assets to be distributed in trustees as may seem expedient to the board. 128. SCRIP DIVIDENDS The board may, if authorised by an ordinary resolution of the company, offer any holders of ordinary shares (excluding any member holding shares as treasury shares) the right to elect to receive ordinary shares, credited as fully paid, instead of cash in respect of the whole (or some part, to be determined by the board) of any dividend specified by the ordinary resolution. The following provisions shall apply: (a) an ordinary resolution may specify some or all of a particular dividend (whether or not already declared) or may specify some or all of any dividends declared or paid within a specified period, but such period may not end later than the fifth anniversary of the date of the meeting at which the ordinary resolution is passed; (b) the entitlement of each holder of ordinary shares to new ordinary shares shall be such that the relevant value of the entitlement shall be as nearly as possible equal to (but not greater than) the cash amount (disregarding any tax credit) of the dividend that such holder elects to forgo. For this purpose, â€œrelevant valueâ€ shall be calculated by reference to such information as the board thinks fit; (c) no fraction of any ordinary share shall be allotted. The board may make such provisions as it thinks fit for any fractional entitlements including provisions whereby, in whole or in part, the benefit thereof accrues to the company and/or under which Â 35 fractional entitlements are accrued and/or retained without interest and in each case accumulated on behalf of any holder of ordinary shares and such accruals or retentions are applied to the allotment by way of bonus to or cash subscription on behalf of such holder of fully paid ordinary shares and/or provisions whereby cash payments may be made to such holders in respect of their fractional entitlements; (d) the board, if it intends to offer an election in respect of any dividend, shall give notice to the holders of ordinary shares of the right of election offered to them, and specify the procedure to be followed which, for the avoidance of doubt, may include an election by means of a relevant system and the place at which, and the latest time by which, elections must be lodged in order for elections to be effective; no such notice need be given to holders of ordinary shares who have previously given election mandates in accordance with this article and whose mandates have not been revoked; the accidental omission to give notice of any right of election to, or the non-receipt (even if the company becomes aware of such non-receipt) of any such notice by, any holder of ordinary shares entitled to the same shall neither invalidate any offer of an election nor give rise to any claim, suit or action; (e) the board shall not proceed with any election unless the company has sufficient reserves or funds that may be capitalised, and the board has authority to allot sufficient shares, to give effect to it after the basis of allotment is determined; (f) the board may exclude or restrict from any offer any shareholder who is an Approved Depositary or a nominee for an Approved Depositary if the offer or exercise of the right to or by the persons on whose behalf the Approved Depositary holds the shares would suffer legal or practical problems of the kind mentioned in Article 128(g). If other shareholders (other than those excluded under Article 128(g)) have the right to opt for new shares, the directors must be satisfied that an appropriate dividend reinvestment plan or similar arrangement is available to a substantial majority of the people on whose behalf the Approved Depositary holds shares or that such arrangement will be available promptly and the first sentence of this Article 128(f) does not apply until the directors are satisfied of this; (g) the board may exclude from any offer or make other arrangement in relation to any holders of ordinary shares where the board believes that such exclusion or arrangement is necessary or expedient in relation to legal or practical problems under the laws of, or the requirements of any recognised regulatory body or any stock exchange in, any territory, or the board believes that for any other reason the offer should not be made to them; (h) the dividend (or that part of the dividend in respect of which a right of election has been offered) shall not be payable on ordinary shares in respect of which an election has been made (for the purposes of this article the â€œelected ordinary sharesâ€) and instead additional ordinary shares shall be allotted to the holders of the elected ordinary shares on the basis of allotment calculated as stated. For such purpose the board shall capitalise, out of any amount standing to the credit of any reserve or fund (including the retained earnings or any share premium account or capital redemption reserve) at the relevant time whether or not the same is available for distribution as the board may determine, a sum equal to the aggregate nominal amount of the additional ordinary shares to be allotted on that basis and apply it in paying up in full the appropriate number of ordinary shares for allotment and distribution to the holders of the elected ordinary shares on that basis. The board may do all acts and things considered necessary or expedient to give effect to any such capitalisation; (i) the additional ordinary shares when allotted shall rank pad passu in all respects with the fully-paid ordinary shares then in issue except that they will not be entitled to participation in the relevant dividend; Â 36 (j) unless the board otherwise determines, or unless the uncertificated securities rules otherwise require, the new ordinary share or shares which a member has elected to receive instead of cash in respect of the whole (or some part) of the specified dividend declared or paid in respect of their elected ordinary shares shall be in uncertificated form (in respect of the member's elected ordinary shares which were in uncertificated form on the date of the member's election) and in certificated form (in respect of the member's elected ordinary shares which were in certificated form on the date of the member's election); (k) the board may also from time to time establish or vary a procedure for election mandates, which, for the avoidance of doubt, may include an election by means of a relevant system, under which a holder of ordinary shares may elect in respect of future rights of election offered to that holder under this article until the election mandate is revoked or deemed to be revoked in accordance with the procedure; (l) the board may decide how any costs relating to making new shares available in place of a cash dividend will be met, including deciding to deduct an amount from the entitlement of a shareholder under this article; and (m) at any time before new ordinary shares are allotted instead of cash in respect of any part of a dividend, the board may determine that such new ordinary shares will not be allotted. Any such determination may be made before or after any election has been made by holders of ordinary shares in respect of the relevant dividend. In these circumstances, the relevant holders of ordinary shares will be paid the cash dividend to which they would have been entitled had they not made such an election. CAPITALISATION OF RESERVES 129. POWER TO CAPITALISE RESERVES AND FUNDS The company may, upon the recommendation of the board, at any time and from time to time pass an ordinary resolution to the effect that it is desirable to capitalise all or any part of any amount standing to the credit of any reserve or fund (including retained earnings) at the relevant time whether or not the same is available for distribution and accordingly that the amount to be capitalised be set free for distribution among the members or any class of members who would be entitled to it if it were distributed by way of dividend and in the same proportions, on the footing that it is applied either in or towards paying up the amounts unpaid at the relevant time on any shares in the company held by those members respectively or in paying up in full shares, debentures or other obligations of the company to be allotted and distributed credited as fully paid up among those members, or partly in one way and partly in the other, but so that, for the purposes of this article: (i) a share premium account and a capital redemption reserve, and any reserve or fund representing unrealised profits, may be applied only in paying up in full shares of the company that are to be allotted and distributed as fully paid up; and (ii) where the amount capitalised is applied in paying up in full shares that are to be allotted and distributed as fully paid up, the company will also be entitled to participate in the relevant distribution in relation to any shares of the relevant class held by it as treasury shares and the proportionate entitlement of the relevant class of members to the distribution will be calculated accordingly. The board may authorise any person to enter into an agreement with the company on behalf of the persons entitled to participate in the distribution and the agreement shall be binding on those persons. 130. SETTLEMENT OF DIFFICULTIES IN DISTRIBUTION Where any difficulty arises in regard to any distribution of any capitalised reserve or fund the board may settle the matter as it thinks expedient and in particular may authorise any person to sell and transfer any fractions or may resolve that the distribution should be as nearly as Â 37 may be practicable in the correct proportion but not exactly so or may ignore fractions altogether, and may determine that cash payments shall be made to any members in order to adjust the rights of all parties, as may seem expedient to the board. RECORD DATES 131. POWER TO CHOOSE ANY RECORD DATE Notwithstanding any other provision of these articles, the company or the board may fix any date as the record date for any dividend, distribution, allotment or issue and such record date may be on or at any time before or after any date on which the dividend, distribution, allotment, or issue is declared, paid, or made. The power to fix any such record date shall include the power to fix a time on the chosen date. RECORDS AND SUMMARY FINANCIAL STATEMENTS 132. INSPECTION OF RECORDS No member in their capacity as such shall have any right of inspecting any accounting record or book or document of the company except as conferred by law, ordered by a court of competent jurisdiction or authorised by the board or by ordinary resolution of the company. 133. SUMMARY FINANCIAL STATEMENTS The company may send or supply summary financial statements to members of the company instead of copies of its full accounts and reports. SERVICE OF NOTICES, DOCUMENTS AND OTHER INFORMATION 134. METHOD OF SERVICE 134.1 Any notice, document (including a share certificate) or other information may be served on or sent or supplied to any member by the company: (a) personally; (b) by sending it through the post addressed to the member at their registered address or by leaving it at that address addressed to the member; (c) by means of a relevant system, where the notice or document relates to uncertificated shares; (d) where appropriate, by sending or supplying it in electronic form to an address notified by the member to the company for that purpose; (e) where appropriate, by making it available on a website and notifying the member of its availability in accordance with this article; or (f) by any other means authorised in writing by the member. In the case of joint holders of a share, service, sending or supply of any notice, document, or other information on or to one of the joint holders shall for all purposes be deemed a sufficient service on or sending or supplying to all the joint holders. 134.2 In the case of joint holders of a share, anything to be agreed or specified in relation to any notice, document or other information to be served on or sent or supplied to them may be agreed or specified by any one of the joint holders and the agreement or specification of the senior shall be accepted to the exclusion of that of the other joint holders and, for this purpose, Â 38 seniority shall be determined by the order in which the names stand in the register in respect of the joint holding. 134.3 If on three consecutive occasions any notice, document or other information served on or sent or supplied to a member has been returned undelivered, such member shall not thereafter be entitled to receive notices, documents or other information from the company until such member shall have communicated with the company and supplied to the company (or its agent) a new registered address, or a postal address within the United Kingdom for the service of notices and the despatch or supply of documents and other information, or shall have informed the company of an address for the service of notices and the despatch or supply of documents and other information in electronic form. For these purposes, any notice, document or other information sent by post shall be treated as returned undelivered if the notice, document or other information is served, sent or supplied back to the company (or its agents) and a notice, document or other information served, sent or supplied in electronic form shall be treated as returned undelivered if the company (or its agents) receives notification that the notice, document or other information was not delivered to the address to which it was sent. 134.4 The company may at any time and in its sole and absolute discretion choose to serve, send, or supply notices, documents, or other information in hard copy form alone to some or all members. 135. RECORD DATE FOR SERVICE Any notice, document or other information may be served, sent, or supplied by the company by reference to the register as it stands at any time not more than 15 days before the date of service, sending or supply. No change in the register after that time shall invalidate that service, sending or supply. Where any notice, document or other information is served on or sent or supplied to any person in respect of a share in accordance with these articles, no person deriving any title or interest in that share shall be entitled to any further service, sending or supply of that notice, document, or other information. 136. MEMBERS RESIDENT ABROAD OR ON BRANCH REGISTERS 136.1 Any member whose registered address is not within the United Kingdom and who gives to the company a postal address within the United Kingdom at which notices, documents or other information may be served upon, or sent or supplied to, such member shall be entitled to have notices, documents or other information served on or sent or supplied to such member at that address or, where applicable, by making them available on a website and notifying the holder at that address. Any member whose registered address is not within the United Kingdom and who gives to the company an address for the purposes of communications by electronic means may, subject to these articles, have notices, documents or other information served on or sent or supplied to such member at that address or, where applicable, by making them available on a website and notifying the holder at that address. Otherwise, a member whose registered address is not within the United Kingdom shall not be entitled to receive any notice, document, or other information from the company. 136.2 For a member registered on a branch register, notices, documents, or other information can be posted or despatched in the United Kingdom or in the country where the branch register is kept. 137. SERVICE OF NOTICE ON PERSON ENTITLED BY TRANSMISSION A person who is entitled by transmission to a share, upon supplying the company with a postal address within the United Kingdom for the service of notices and the despatch or supply of documents and other information shall be entitled to have served upon or sent or supplied to such person at such address any notice, document or other information to which such person would have been entitled if such person were the holder of that share or, where applicable, to Â 39 be notified at that address of the availability of the notice, document or other information on a website. A person who is entitled by transmission to a share, upon supplying the company with an address for the purposes of communications by electronic means for the service of notices and the despatch or supply of documents and other information may have served on, sent or supplied to such person at such address any notice, document or other information to which such person would have been entitled if such person were the holder of that share or, where applicable, may be notified at that address of the availability of the notice, document or other information on a website. In either case, such service, sending or supply shall for all purposes be deemed a sufficient service, sending or supply of such notice, document or other information on all persons interested (whether jointly with or as claimants through or under such person) in the share. Otherwise, any notice, document or other information served on or sent or supplied to any member pursuant to these articles shall, notwithstanding that the member is then dead or bankrupt or that any other event giving rise to the transmission of the share by operation of law has occurred and whether or not the company has notice of the death, bankruptcy or other event, be deemed to have been properly served, sent or supplied in respect of any share registered in the name of that member as sole or joint holder. 138. DEEMED DELIVERY 138.1 Any notice, document or other information, if served, sent or supplied by the company by post, shall be deemed to have been received on the day following that on which it was posted if first class post was used or 48 hours after it was posted if first class post was not used and, in proving that a notice, document or other information was served, sent or supplied, it shall be sufficient to prove that the notice, document or other information was properly addressed, prepaid and put in the post. 138.2 Any notice, document or other information not served, sent or supplied by post but left by the company at a registered address or at an address (other than an address for the purposes of communications by electronic means) notified to the company in accordance with these articles by a person who is entitled by transmission to a share shall be deemed to have been received on the day it was so left. 138.3 Any notice, document or other information served, sent, or supplied by the company by means of a relevant system shall be deemed to have been received when the company or any sponsoring system-participant acting on its behalf sends the issuer-instruction relating to the notice, document, or other information. 138.4 Any notice, document or other information served, sent, or supplied by the company using electronic means shall be deemed to have been received on the day on which it was sent notwithstanding that the company subsequently sends a hard copy of such notice, document, or information by post. Any notice, document or other information made available on a website shall be deemed to have been received on the day on which the notice, document or other information was first made available on the website or, if later, when a notice of availability is received or deemed to have been received pursuant to this article. In proving that a notice, document, or other information served, sent, or supplied by electronic means was served, sent, or supplied, it shall be sufficient to prove that it was properly addressed. 138.5 Any notice, document or other information served, sent, or supplied by the company by any other means authorised in writing by the member concerned shall be deemed to have been received when the company has carried out the action it has been authorised to take for that purpose. Â 40 139. NOTICE WHEN POST NOT AVAILABLE If there is a suspension or curtailment of postal services within the United Kingdom or some part of the United Kingdom, the company need only give notice of a general meeting to those members with whom the company can communicate by electronic means and who have provided the company with an address for this purpose. The company shall also advertise the notice in at least one newspaper with a national circulation and make it available on its website from the date of such advertisement until the conclusion of the meeting or any adjournment thereof. If at least six clear days prior to the meeting the sending or supply of notices by post in hard copy form has again become generally possible, the company shall send or supply confirmatory copies of the notice by post to those members who would otherwise receive the notice in hard copy form. DESTRUCTION OF DOCUMENTS 140. PRESUMPTIONS WHERE DOCUMENTS DESTROYED If the company destroys or deletes: (a) any share certificate which has been cancelled at any time after a period of one year has elapsed from the date of cancellation, or (b) any instruction concerning the payment of dividends or other moneys in respect of any share or any notification of change of name or address at any time after a period of two years has elapsed from the date the instruction or notification was recorded by the company, or (c) any instrument of transfer of shares or Operator-instruction for the transfer of shares which has been registered by the company at any time after a period of six years has elapsed from the date of registration, or (d) any instrument of proxy which has been used for the purpose of a poll at any time after a period of one year has elapsed from the date of use, or (e) any instrument of proxy which has not been used for the purpose of a poll at any time after a period of one month has elapsed from the end of the meeting to which the instrument of proxy relates, or (f) any other document on the basis of which any entry is made in the register at any time after a period of six years has elapsed from the date the entry was first made in the register in respect of it, and the company destroys or deletes the document or instruction in good faith and without express notice that its preservation was relevant to a claim, it shall be presumed irrebuttably in favour of the company that every share certificate so destroyed was a valid certificate and was properly cancelled, that every instrument of transfer or Operator-instruction so destroyed or deleted was a valid and effective instrument of transfer or instruction and was properly registered and that every other document so destroyed was a valid and effective document and that any particulars of it which are recorded in the books or records of the company were correctly recorded. If the documents relate to uncertificated shares, the company must comply with any requirements of the uncertificated securities rules which limit its ability to destroy these documents. Nothing contained in this article shall be construed as imposing upon the company any liability which, but for this article, would not exist or by reason only of the destruction of any document of the kind mentioned above before the relevant period mentioned in this article has elapsed or of the fact that any other condition precedent to its destruction mentioned above has not been fulfilled. References in this article to the destruction of any document include references to its disposal in any manner. Â 41 INDEMNITY 141. INDEMNITY OF DIRECTORS 141.1 Subject to the provisions of the Companies Acts, the company may indemnify any director of the company or of any associated company against any liability and may purchase and maintain for any director of the company or of any associated company insurance against any liability. 141.2 No director or former director of the company or of any associated company shall be accountable to the company or the members for any benefit provided pursuant to this article 141 and the receipt of any such benefit shall not disqualify the person from being or becoming a director of the company. Â EX-31.1 3 exhibit311q224.htm EX-31.1 DocumentSection 302 CertificateCertification Required by Rule 13a-14(a) or 15d-14(a) under the Securities Exchange Act of 1934I, Andrew Butcher, certify that:1. Â Â Â Â I have reviewed this quarterly report on Form 10-Q of Luxfer Holdings PLC;2. Â Â Â Â Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;3. Â Â Â Â Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;4.Â Â Â Â The registrantâ€™s other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:a) Â Â Â Â designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;b) Â Â Â Â designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;c)Â Â Â Â evaluated the effectiveness of the registrantâ€™s disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; andd) Â Â Â Â disclosed in this report any change in the registrantâ€™s internal control over financial reporting that occurred during the registrantâ€™s most recent fiscal quarter (the registrantâ€™s fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrantâ€™s internal control over financial reporting; and5. Â Â Â Â The registrantâ€™s other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrantâ€™s auditors and the audit committee of the registrantâ€™s board of directors (or persons performing the equivalent functions):a) Â Â Â Â all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrantâ€™s ability to record, process, summarize and report financial information; andb) Â Â Â Â any fraud, whether or not material, that involves management or other employees who have a significant role in the registrantâ€™s internal control over financial reporting.Date: July 30, 2024__/s/ Andrew Butcher____________________Andrew ButcherChief Executive Officer EX-31.2 4 exhibit312q224.htm EX-31.2 DocumentSection 302 CertificateCertification Required by Rule 13a-14(a) or 15d-14(a) under the Securities Exchange Act of 1934I, Stephen Webster, certify that:1. Â Â Â Â I have reviewed this quarterly report on Form 10-Q of Luxfer Holdings PLC;2. Â Â Â Â Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;3. Â Â Â Â Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;4.Â Â Â Â The registrantâ€™s other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:a) Â Â Â Â designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;b) Â Â Â Â designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;c)Â Â Â Â evaluated the effectiveness of the registrantâ€™s disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; andd) Â Â Â Â disclosed in this report any change in the registrantâ€™s internal control over financial reporting that occurred during the registrantâ€™s most recent fiscal quarter (the registrantâ€™s fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrantâ€™s internal control over financial reporting; and5. Â Â Â Â The registrantâ€™s other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrantâ€™s auditors and the audit committee of the registrantâ€™s board of directors (or persons performing the equivalent functions):a) Â Â Â Â all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrantâ€™s ability to record, process, summarize and report financial information; andb) Â Â Â Â any fraud, whether or not material, that involves management or other employees who have a significant role in the registrantâ€™s internal control over financial reporting.Date: July 30, 2024__/s/ Stephen Webster____________________Stephen WebsterChief Financial Officer EX-32.1 5 exhibit321q224.htm EX-32.1 DocumentSection 906 Certificate Certification Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (Subsections (a) and (b) of Section 1350, Chapter 63 of Title 18, United States Code) Pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, I, Andrew Butcher, the Chief Executive Officer of Luxfer Holdings PLC, a public limited company incorporated under English law (the â€œCompanyâ€), do hereby certify, to my knowledge, that: â€¢the Quarterly Report on Form 10-Q for the period ended June 30, 2024 (the â€œReportâ€) of the Company fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and â€¢information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company. Date: July 30, 2024__/s/ Andrew Butcher_______Andrew ButcherChief Executive Officer EX-32.2 6 exhibit322q224.htm EX-32.2 DocumentSection 906 Certificate Certification Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (Subsections (a) and (b) of Section 1350, Chapter 63 of Title 18, United States Code) Pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, I, Stephen Webster, the Chief Financial Officer of Luxfer Holdings PLC, a public limited company incorporated under English law (the â€œCompanyâ€), do hereby certify, to my knowledge, that: â€¢the Quarterly Report on Form 10-Q for the period ended June 30, 2024 (the â€œReportâ€) of the Company fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and â€¢information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company. Date: July 30, 2024__/s/ Stephen Webster_______Stephen WebsterChief Financial Officer EX-101.SCH 7 lxfr-20240630.xsd XBRL TAXONOMY EXTENSION SCHEMA DOCUMENT 0000001 - Document - Cover link:presentationLink link:calculationLink link:definitionLink 9952151 - Statement - CONDENSED CONSOLIDATED STATEMENTS OF (LOSS) / INCOME (UNAUDITED) link:presentationLink link:calculationLink link:definitionLink 9952152 - Statement - CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE (LOSS) / INCOME (UNAUDITED) link:presentationLink link:calculationLink link:definitionLink 9952153 - Statement - CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE (LOSS) / INCOME (UNAUDITED) (Parenthetical) link:presentationLink link:calculationLink link:definitionLink 9952154 - Statement - CONDENSED CONSOLIDATED BALANCE SHEETS (UNAUDITED) link:presentationLink link:calculationLink link:definitionLink 9952155 - Statement - CONDENSED CONSOLIDATED BALANCE SHEETS (UNAUDITED) (Parenthetical) link:presentationLink link:calculationLink link:definitionLink 9952156 - Statement - CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS (UNAUDITED) link:presentationLink link:calculationLink link:definitionLink 9952157 - Statement - CONDENSED CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY (UNAUDITED) link:presentationLink link:calculationLink link:definitionLink 9952158 - Disclosure - Basis of Presentation and Responsibility for interim Financial Statements link:presentationLink link:calculationLink link:definitionLink 9952159 - Disclosure - Earnings per share link:presentationLink link:calculationLink link:definitionLink 9952160 - Disclosure - Net Sales link:presentationLink link:calculationLink link:definitionLink 9952161 - Disclosure - Restructuring link:presentationLink link:calculationLink link:definitionLink 9952162 - Disclosure - Other Income link:presentationLink link:calculationLink link:definitionLink 9952163 - Disclosure - Income Taxes link:presentationLink link:calculationLink link:definitionLink 9952164 - Disclosure - Acquisition and disposal related costs link:presentationLink link:calculationLink link:definitionLink 9952165 - Disclosure - Supplementary balance sheet information link:presentationLink link:calculationLink link:definitionLink 9952166 - Disclosure - Goodwill and other identifiable intangible assets link:presentationLink link:calculationLink link:definitionLink 9952167 - Disclosure - Debt link:presentationLink link:calculationLink link:definitionLink 9952168 - Disclosure - Discontinued Operations link:presentationLink link:calculationLink link:definitionLink 9952169 - Disclosure - Held-for-sale assets and liabilities link:presentationLink link:calculationLink link:definitionLink 9952170 - Disclosure - Share Plans link:presentationLink link:calculationLink link:definitionLink 9952171 - Disclosure - Shareholders' Equity link:presentationLink link:calculationLink link:definitionLink 9952172 - Disclosure - Segmental Information link:presentationLink link:calculationLink link:definitionLink 9952173 - Disclosure - Commitments and Contingencies link:presentationLink link:calculationLink link:definitionLink 9952174 - Disclosure - Pension Settlement link:presentationLink link:calculationLink link:definitionLink 9952175 - Disclosure - Subsequent Events link:presentationLink link:calculationLink link:definitionLink 9954471 - Disclosure - Basis of Presentation and Responsibility for interim Financial Statements (Policies) link:presentationLink link:calculationLink link:definitionLink 9954472 - Disclosure - Earnings per share (Tables) link:presentationLink link:calculationLink link:definitionLink 9954473 - Disclosure - Net Sales (Tables) link:presentationLink link:calculationLink link:definitionLink 9954474 - Disclosure - Restructuring (Tables) link:presentationLink link:calculationLink link:definitionLink 9954475 - Disclosure - Acquisition and disposal related costs (Tables) link:presentationLink link:calculationLink link:definitionLink 9954476 - Disclosure - Supplementary balance sheet information (Tables) link:presentationLink link:calculationLink link:definitionLink 9954477 - Disclosure - Goodwill and other identifiable intangible assets (Tables) link:presentationLink link:calculationLink link:definitionLink 9954478 - Disclosure - Debt (Tables) link:presentationLink link:calculationLink link:definitionLink 9954479 - Disclosure - Discontinued Operations (Tables) link:presentationLink link:calculationLink link:definitionLink 9954480 - Disclosure - Held-for-sale assets and liabilities (Tables) link:presentationLink link:calculationLink link:definitionLink 9954481 - Disclosure - Share Plans (Tables) link:presentationLink link:calculationLink link:definitionLink 9954482 - Disclosure - Shareholders' Equity (Tables) link:presentationLink link:calculationLink link:definitionLink 9954483 - Disclosure - Segmental Information (Tables) link:presentationLink link:calculationLink link:definitionLink 9954484 - Disclosure - Commitments and Contingencies (Tables) link:presentationLink link:calculationLink link:definitionLink 9954485 - Disclosure - Earnings per share (Details) link:presentationLink link:calculationLink link:definitionLink 9954486 - Disclosure - Net Sales (Details) link:presentationLink link:calculationLink link:definitionLink 9954487 - Disclosure - Restructuring - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 9954488 - Disclosure - Restructuring - Schedule of Restructuring Related Costs (Details) link:presentationLink link:calculationLink link:definitionLink 9954489 - Disclosure - Restructuring - Schedule of Restructuring Reserve (Details) link:presentationLink

link:calculationLink link:definitionLink 9954490 - Disclosure - Other Income (Details) link:presentationLink link:calculationLink link:definitionLink 9954491 - Disclosure - Income Taxes (Details) link:presentationLink link:calculationLink link:definitionLink 9954492 - Disclosure - Acquisition and disposal related costs (Details) link:presentationLink link:calculationLink link:definitionLink 9954493 - Disclosure - Acquisition and disposal related costs - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 9954494 - Disclosure - Supplementary balance sheet information (Details) link:presentationLink link:calculationLink link:definitionLink 9954495 - Disclosure - Goodwill and other identifiable intangible assets - Schedule of Goodwill (Details) link:presentationLink link:calculationLink link:definitionLink 9954496 - Disclosure - Goodwill and other identifiable intangible assets - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 9954497 - Disclosure - Goodwill and other identifiable intangible assets - Schedule of Intangible Assets (Details) link:presentationLink link:calculationLink link:definitionLink 9954498 - Disclosure - Debt - Schedule of Debt Outstanding (Details) link:presentationLink link:calculationLink link:definitionLink 9954498 - Disclosure - Debt - Schedule of Debt Outstanding (Details) link:presentationLink link:calculationLink link:definitionLink 9954499 - Disclosure - Debt - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 9954500 - Disclosure - Discontinued Operations - Results of Discontinued Operations (Details) link:presentationLink link:calculationLink link:definitionLink 9954501 - Disclosure - Discontinued Operations - Assets and Liabilities (Details) link:presentationLink link:calculationLink link:definitionLink 9954502 - Disclosure - Discontinued Operations - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 9954503 - Disclosure - Held-for-sale assets and liabilities - Schedule of Current Held-for-Sale Assets and Liabilities (Details) link:presentationLink link:calculationLink link:definitionLink 9954504 - Disclosure - Held-for-sale assets and liabilities - Additional information (Details) link:presentationLink link:calculationLink link:definitionLink 9954505 - Disclosure - Share Plans - Schedule of Share-based Compensation Expense (Details) link:presentationLink link:calculationLink link:definitionLink 9954506 - Disclosure - Share Plans - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 9954507 - Disclosure - Share Plans - Share Options Fair Value Assumptions (Details) link:presentationLink link:calculationLink link:definitionLink 9954508 - Disclosure - Shareholders' Equity - Schedule of Dividend Paid and Proposed (Details) link:presentationLink link:calculationLink link:definitionLink 9954509 - Disclosure - Segmental Information - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 9954510 - Disclosure - Segmental Information - Financial Information by Reportable Segment (Details) link:presentationLink link:calculationLink link:definitionLink 9954511 - Disclosure - Segmental Information - Geographic Information by Region (Details) link:presentationLink link:calculationLink link:definitionLink 9954512 - Disclosure - Segmental Information - Reconciliation of Consolidated Segment Income (Details) link:presentationLink link:calculationLink link:definitionLink 9954513 - Disclosure - Segmental Information - Geographic Information by Region (Details) link:presentationLink link:calculationLink link:definitionLink 9954514 - Disclosure - Commitments and Contingencies - Additional Information (Details) link:presentationLink link:calculationLink link:definitionLink 9954515 - Disclosure - Commitments and Contingencies - Schedule of Uncommitted Facilities (Details) link:presentationLink link:calculationLink link:definitionLink 9954516 - Disclosure - Pension Settlement (Details) link:presentationLink link:calculationLink link:definitionLink EX-101.CAL 8 lxfr-20240630_cal.xml XBRL TAXONOMY EXTENSION CALCULATION LINKBASE DOCUMENT EX-101.DEF 9 lxfr-20240630_def.xml XBRL TAXONOMY EXTENSION DEFINITION LINKBASE DOCUMENT EX-101.LAB 10 lxfr-20240630_lab.xml XBRL TAXONOMY EXTENSION LABEL LINKBASE DOCUMENT Beginning balance Ending balance Restructuring provision Restructuring Reserve, Current Adjustments to reconcile net income to net cash provided / (used) by operating activities Adjustments to Reconcile Net Income (Loss) to Cash Provided by (Used in) Operating Activities [Abstract] Range [Domain] Statistical Measurement [Domain] Finite-Lived Intangible Assets, Net, Amortization Expense, Fiscal Year Maturity Finite-Lived Intangible Assets, Net, Amortization Expense, Fiscal Year Maturity [Abstract] Cover [Abstract] Cover [Abstract] Net increase / (decrease) Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents, Period Increase (Decrease), Including Exchange Rate Effect Foreign plan Foreign Plan [Member] Other current liabilities Total other current liabilities Other Liabilities, Current Trading Symbol Trading Symbol Segment Reporting Information [Line Items] Segment Reporting Information [Line Items] All Trading Arrangements All Trading Arrangements [Member] Compensation Actually Paid vs. Net Income Compensation Actually Paid vs. Net Income [Text Block] Non-NEOs Non-NEOs [Member] Schedule of earnings per share Schedule of Earnings Per Share, Basic and Diluted [Table Text Block] Rule 10b5-1 Arrangement Adopted Rule 10b5-1 Arrangement Adopted [Flag] Operating loss Disposal Group, Including Discontinued Operation, Operating Income (Loss) Awards Close in Time to MNPI Disclosures Awards Close in Time to MNPI Disclosures [Table] Held-for-sale assets Disposal Group, Including Discontinued Operation, Assets [Abstract] Accounts and other receivables, net of allowance Accounts Receivable, Allowance for Credit Loss, Current Disposal Group Name [Domain] Disposal Group Name [Domain] Pay vs Performance Disclosure [Line Items] Peer Group Total Shareholder Return Amount Peer Group Total Shareholder Return Amount Non-Rule 10b5-1 Arrangement Adopted Non-Rule 10b5-1 Arrangement Adopted [Flag] Restructuring and Related Activities [Abstract] Restructuring and Related Activities [Abstract] Award Timing Disclosures [Line Items] Other Performance Measure, Amount Other Performance Measure, Amount Amortization, year three Finite-Lived Intangible Asset, Expected Amortization, Year Three Goodwill [Line Items] Goodwill [Line Items] Common stock, shares outstanding (in shares) Common Stock, Shares, Outstanding Other receivables Other Receivables, Net, Current Interest expense, net Interest Income (Expense), Operating Operating lease, liability, noncurrent, statement of financial position [extensible enumeration] Operating Lease, Liability, Noncurrent, Statement of Financial Position [Extensible Enumeration] Operating lease liability Operating Lease, Liability, Noncurrent Utilization of treasury shares to satisfy share based compensation Stock Issued During Period, Value, Shares From Employee Stock Ownership Plan To Satisfy Share Based Compensation Stock Issued During Period, Value, Shares From Employee Stock Ownership Plan To Satisfy Share Based Compensation Revenue from Contract with Customer [Abstract] Revenue from Contract with Customer [Abstract] Plan Name [Domain] Plan Name [Domain] U.S. United States UNITED STATES Inventories Inventory, Net [Abstract] Dilutive effect of potential common stock (in shares) Weighted Average Number of Shares Outstanding, Diluted, Adjustment Entity Tax Identification Number Entity Tax Identification Number Beginning balance Ending balance Finite-Lived Intangible Assets, Gross Schedule of Finite-Lived Intangible Assets [Table] Intangible Asset, Finite-Lived [Table] Operating segments Operating Segments [Member] Net cash provided / (used) by operating activities Net Cash Provided by (Used in) Operating Activities Treasury shares Treasury Stock, Common [Member] Operating activities Net Cash Provided by (Used in) Operating Activities [Abstract] Taxes on income Taxes Payable, Current Plan Name [Axis] Plan Name [Axis] Prepayments and accrued income Prepaid Expense, Current Equity Components [Axis] Equity Components [Axis] Other current assets Total other current assets Other Assets, Current Award Timing Method Award Timing Method [Text Block] Defined benefit pension credit Defined Benefit Plan, Net Periodic Benefit Cost (Credit) Trading Arrangements, by Individual Trading Arrangements, by Individual [Table] Entity Common Stock, Shares Outstanding (in shares) Entity Common Stock, Shares Outstanding Net cash used by investing activities - discontinued Cash Provided by (Used in) Investing Activities, Discontinued Operations Insider Trading Policies and Procedures [Line Items] Adjustment to Compensation, Amount Adjustment to Compensation Amount Compensation Amount Outstanding Recovery Compensation Amount Disposal Group Classification [Axis] Disposal Group Classification [Axis] Aggregate Change in Present Value of Accumulated Benefit for All Pension Plans Reported in Summary Compensation Table Aggregate Change in Present Value of Accumulated Benefit for All Pension Plans Reported in Summary Compensation Table [Member] Entity Small Business Entity Small Business Company Selected Measure Amount Company Selected Measure Amount Geographical [Axis] Geographical [Axis] Restructuring and related costs Restructuring and Related Costs [Table Text Block] Tabular List, Table Tabular List [Table Text Block] Share-based Compensation Arrangement by Share-based Payment Award [Line Items] Share-Based Compensation Arrangement by Share-Based Payment Award [Line Items] Accounts and other receivables, net of allowances of $0.6 and $0.7, respectively Total accounts and other receivables Receivables, Net, Current Aggregate Grant Date Fair Value of Equity Award Amounts Reported in Summary Compensation Table Aggregate Grant Date Fair Value of Equity Award Amounts Reported in Summary Compensation Table [Member] Luxfer Holdings PLC Long-Term Umbrella Incentive Plan Luxfer Holdings PLC Long-Term Umbrella Incentive Plan [Member] Luxfer Holdings PLC Long-Term Umbrella Incentive Plan Accrued liabilities Accrued Liabilities, Current Cash payments and other Payments for Restructuring Other income Other Operating Income and Expense [Text Block] Pension charge, cash Pension And Other Postretirement Benefits Contributions, Cash Pension And Other Postretirement Benefits Contributions, Cash Credit Facility [Domain] Credit Facility [Domain] Cash, cash equivalents and restricted cash; beginning of year Cash, cash equivalents and restricted cash; end of the second quarter Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents Debt, weighted average interest rate Debt, Weighted Average Interest Rate Non-current assets Disposal Group, Including Discontinued Operation, Assets, Noncurrent Current assets Assets, Current [Abstract] Elektron Elektron segment Elektron Segment [Member] Elektron Segment [Member] Goodwill Beginning balance Ending balance Goodwill Consolidation Items [Axis] Consolidation Items [Axis] Share-based compensation cash paid Payment, Tax Withholding, Share-Based Payment Arrangement Other comprehensive (loss) / income Other Comprehensive Income (Loss), Net of Tax [Abstract] Net (loss) / income from continuing operations Net income from continuing operations Net (loss) / income from continuing operations Income (Loss) from Continuing Operations, Net of Tax, Attributable to Parent Forgone Recovery due to Disqualification of Tax Benefits, Amount Forgone Recovery due to Disqualification of Tax Benefits, Amount Defined benefit pension contributions Pension And Other Postretirement Benefits Contributions, Noncash Pension And Other Postretirement Benefits Contributions, Noncash Product and Service [Domain] Product and Service [Domain] Employee Stock Option Share-Based Payment Arrangement, Option [Member] Goodwill [Roll Forward] Goodwill [Roll Forward] Depreciation Depreciation Total comprehensive (loss) / income Comprehensive Income (Loss), Net of Tax, Attributable to Parent Raw materials and supplies Inventory, Raw Materials and Supplies, Net of Reserves Security Exchange Name Security Exchange Name Award Type Award Type [Axis] Revenue from External Customers and Long-term Assets by Geographic Areas Schedule of Revenue from External Customers and Long-Lived Assets, by Geographical Areas [Table Text Block] Exchange difference Goodwill, Foreign Currency Translation Gain (Loss) Held-for-sale liabilities Disposal Group, Including Discontinued Operation, Liabilities [Abstract] Work-in-process Inventory, Work in Process, Net of Reserves Property, plant and equipment, net Total property, plant and equipment, net Property, Plant and Equipment, Net Total liabilities Liabilities Acquisition and disposal related costs Disposal related costs Acquisition and disposal related costs Disposal Group, Not Discontinued Operation, Disposal Cost And Loss (Gain) On Write-Down Disposal Group, Not Discontinued Operation, Disposal Cost And Loss (Gain) On Write-Down Dividends paid (in USD per share) Common Stock, Dividends, Per Share, Cash Paid Number of operating divisions Number of Reporting Units Common stock, par value (in GBP per share) Common Stock, Par or Stated Value Per Share Forgone Recovery, Explanation of Impracticability Forgone Recovery, Explanation of Impracticability [Text Block] Research and development Research and Development Expense Schedule of Share-based Compensation Arrangements by Share-based Payment Award [Table] Schedule of Share-Based Compensation Arrangements by Share-Based Payment Award [Table] Revolving credit facility Revolving Credit Facility [Member] Expiration Date Trading Arrangement Expiration Date Investing activities Net Cash Provided by (Used in) Investing Activities [Abstract] Other income Noninterest Income, Other Operating Income Other current assets Other Assets [Abstract] Accounts and other receivables Accounts Receivable, after Allowance for Credit Loss [Abstract] Capital expenditures Capital Expenditure, Cash And Noncash Capital Expenditure, Cash And Noncash Goodwill and Intangible Assets Disclosure [Abstract] Goodwill and Intangible Assets Disclosure [Abstract] Net cash provided / (used) by operating activities - continuing Net Cash Provided by (Used in) Operating Activities, Continuing Operations Operating lease liability Operating Lease, Liability, Current Total Shareholder Return Amount Total Shareholder Return Amount Common stock, shares issued (in shares) Common Stock, Shares, Issued Gas Cylinders Gas Cylinders segment Gas Cylinders Segment [Member] Gas Cylinders Segment [Member] Equity Awards Adjustments, Footnote Equity Awards Adjustments, Footnote [Text Block] Facility Line of Credit Facility, Maximum Borrowing Capacity Concentration risk, percentage Concentration Risk, Percentage Held-for-sale assets Disposal Group, Including Discontinued Operation, Assets Luxfer Holdings PLC Non-Executive Directors' Equity Incentive Plan Luxfer Holdings PLC Non-Executive Directors' Equity Incentive Plan [Member] Luxfer Holdings PLC Non-Executive Directors' Equity Incentive Plan Depreciation and amortization, discontinued operations Depreciation and Amortization, Discontinued Operations Insider Trading Policies and Procedures Adopted Insider Trading Policies and Procedures Adopted [Flag] Inventory Disposal Group, Including Discontinued Operation, Inventory, Current Accumulated depreciation and impairment Accumulated Depreciation, Depletion and Amortization, Property, Plant, and Equipment Total property, plant and equipment Property, Plant and Equipment, Gross Debt Instrument [Line Items] Debt Instrument [Line Items] Named Executive Officers, Footnote Named Executive Officers, Footnote [Text Block] Common stock, shares authorized (in shares) Common Stock, Shares Authorized Basis of presentation Basis of Accounting, Policy [Policy Text Block] Diluted (in shares) For diluted earnings per share (in shares) Weighted Average Number of Shares Outstanding, Diluted MNPI Disclosure Timed for Compensation Value MNPI Disclosure Timed for Compensation Value [Flag] Amortization, remainder of fiscal year Finite-Lived Intangible Asset, Expected Amortization, Remainder of Fiscal Year Bonding facility for bank guarantees, letter of credit and bank overdrafts Bonding Facility For Bank Guarantees, Letter of Credit And Bank Overdrafts [Member] Bonding Facility For Bank Guarantees, Letter of Credit And Bank Overdrafts Long-term Debt, Type [Axis] Long-Term Debt, Type [Axis] Basic (loss) / earnings: Net Income (Loss) Available to Common Stockholders, Basic [Abstract] Total shareholders' equity Beginning balance Ending balance Equity, Attributable to Parent Treasury shares Treasury Stock, Value Related party Related Party [Member] Net sales Disposal Group, Including Discontinued Operation, Revenue Business Combinations [Abstract] Business Combinations [Abstract] Net interest expense Interest Expense, Nonoperating Property, plant and equipment Disposal Group, Including Discontinued Operation, Property, Plant and Equipment, Noncurrent Derivative financial instruments Derivative Asset, Current Schedule of Goodwill Schedule of Goodwill [Table Text Block] Pension charge Pension and Other Postretirement Benefits Cost (Reversal of Cost) Concentration Risk Type [Domain] Concentration Risk Type [Domain] Company shares held by ESOP Unearned ESOP Shares Selling, general and administrative expenses Selling, General and Administrative Expense Entity Address, Country Entity Address, Country Current maturities of long-term debt and short-term borrowing Debt, Current Other comprehensive (loss) / income, net of tax Other comprehensive loss, net of tax Other Comprehensive Income (Loss), Net of Tax, Portion Attributable to Parent Trade receivables Accounts Receivable, after Allowance for Credit Loss, Current Awards granted during the period (in shares) Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Grants in Period, Gross Revenues from External Customers and Long-Lived Assets [Line Items] Revenues from External Customers and Long-Lived Assets [Line Items] Asset impairments Asset Impairment Charges Total debt Long-Term Debt Pension Adjustments Prior Service Cost Pension Adjustments Prior Service Cost [Member] Document Fiscal Period Focus Document Fiscal Period Focus All Executive Categories All Executive Categories [Member] Current liabilities held-for-sale Held-for-sale liabilities Disposal Group, Including Discontinued Operation, Liabilities, Current Schedule of restructuring reserve Schedule of Restructuring Reserve by Type of Cost [Table Text Block] Amortization, year two Finite-Lived Intangible Asset, Expected Amortization, Year Two Changed Peer Group, Footnote Changed Peer Group, Footnote [Text Block] Dividend yield (%) Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Expected Dividend Rate Restricted cash Restricted Cash, Current Document Type Document Type Graphic Arts Graphic Arts [Member] Graphic Arts Pension Benefits Adjustments, Footnote Pension Benefits Adjustments, Footnote [Text Block] Schedule of Segment Reporting Information, by Segment Schedule of Segment Reporting Information, by Segment [Table Text Block] Total Shareholder Return Vs Peer Group Total Shareholder Return Vs Peer Group [Text Block] Investments and loans to joint ventures and other affiliates Investments in and Advance to Affiliates, Subsidiaries, Associates, and Joint Ventures Tax on other comprehensive income Other Comprehensive (Income) Loss, Defined Benefit Plan, after Reclassification Adjustment, Tax Nonrelated party Nonrelated Party [Member] Other Income and Expenses [Abstract] Schedule of Defined Benefit Plans Disclosures [Table] Defined Benefit Plan [Table] Weighted average exercise price (in USD per share) Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Exercise Price Condensed balance sheet Condensed Balance Sheet [Table Text Block] Maximum Maximum [Member] Amortization of purchased intangible assets Charge Amortization of Intangible Assets Equity Valuation Assumption Difference, Footnote Equity Valuation Assumption Difference, Footnote [Text Block] Accumulated goodwill impairment losses Goodwill, Impaired, Accumulated Impairment Loss Disposal Company Disposal Company [Member] Disposal Company Top five countries Top Five Countries [Member] Top Five Countries [Member] Net book values: Finite-Lived Intangible Assets, Net Number of discontinued operations Number of Discontinued Operations Number of Discontinued Operations Accounts payable Accounts Payable, Current Schedule of Share-based Payment Award, Stock Options, Valuation Assumptions Schedule of Share-Based Payment Award, Stock Options, Valuation Assumptions [Table Text Block] Acquisition and disposal related costs Business Combination Disclosure [Text Block] Current Fiscal Year End Date Current Fiscal Year End Date Non-current assets Assets, Noncurrent [Abstract] Range [Axis] Statistical Measurement [Axis] PEO Name PEO Name Non-Rule 10b5-1 Arrangement Terminated Non-Rule 10b5-1 Arrangement Terminated [Flag] Income before income taxes Income (Loss) from Continuing Operations before Income Taxes, Noncontrolling Interest Other Other Geographic Region [Member] Other Geographic Region [Member] All Award Types Award Type [Domain] Non-PEO NEO Average Total Compensation Amount Non-PEO NEO Average Total Compensation Amount Accounts and other receivables Disposal Group, Including Discontinued Operation, Accounts, Notes and Loans Receivable, Net Name Outstanding Recovery, Individual Name Disaggregation of Revenue [Line Items] Disaggregation of Revenue [Line

Items] Schedule of Acquisition and Disposal Cost Schedule of Results of Discontinued Operations Schedule of Current Held-for-Sale Assets and Liabilities Disposal Groups, Including Discontinued Operations [Table Text Block] Country Region Country Region Discontinued Operations, Held-for-sale Discontinued Operations, Held-for-Sale [Member] Compensation Actually Paid vs. Company Selected Measure Compensation Actually Paid vs. Company Selected Measure [Text Block] Pensions and other retirement benefits Liability, Defined Benefit Plan, Noncurrent Deferred tax assets Deferred Income Tax Assets, Net Non-PEO NEO Non-PEO NEO [Member] Useful life Finite-Lived Intangible Asset, Useful Life Additional paid-in capital Additional Paid-in Capital [Member] Award Timing Predetermined Award Timing Predetermined [Flag] Subsequent Event Type [Domain] Subsequent Event Type [Domain] Pension Settlement Retirement Benefits [Text Block] Class of Stock [Line Items] Class of Stock [Line Items] Customer relationships Customer Relationships [Member] Accounting standards issued but not yet effective New Accounting Pronouncements, Policy [Policy Text Block] Class of Stock [Axis] Class of Stock [Axis] Diluted (usd per share) Earnings Per Share, Diluted Finite-Lived Intangible Assets by Major Class [Axis] Finite-Lived Intangible Assets by Major Class [Axis] Counterparty Name [Domain] Counterparty Name [Domain] Beginning balance Ending balance Finite-Lived Intangible Assets, Accumulated Amortization Name Measure Name Entity Interactive Data Current Entity Interactive Data Current Net loss from discontinued operations Net loss from discontinued operations Net loss from discontinued operations Income (Loss) from Discontinued Operations, Net of Tax, Attributable to Parent Restatement does not require Recovery Restatement Does Not Require Recovery [Text Block] Operating Activities [Axis] Operating Activities [Axis] Canada CANADA Retirement Benefits [Abstract] Retirement Benefits [Abstract] Restructuring charges Restructuring charges Total restructuring charges Restructuring, Settlement and Impairment Provisions Accrued liabilities Disposal Group, Including Discontinued Operation, Accrued Liabilities Income tax payments, net Income Taxes Paid Disaggregation of Revenue [Table] Disaggregation of Revenue [Table] Statement of Financial Position [Abstract] Statement of Financial Position [Abstract] Restructuring Restructuring and Related Activities Disclosure [Text Block] Accounts and other receivables Increase (Decrease) in Receivables Share-based compensation charges Share-Based Payment Arrangement, Noncash Expense (Provision) / credit for income taxes Income Tax Expense (Benefit) Debt stated interest rate Debt Instrument, Interest Rate, Stated Percentage Other Segment Reporting, Reconciling Item, Corporate Nonsegment [Member] Current maturities of long-term debt and short-term borrowings Debt, Long-Term and Short-Term, Combined Amount [Abstract] Supplemental cash flow information: Supplemental Cash Flow Information [Abstract] Net sales Net sales Revenue from Contract with Customer, Excluding Assessed Tax Statement of Comprehensive Income [Abstract] Statement of Comprehensive Income [Abstract] Concentration Risk Benchmark [Domain] Concentration Risk Benchmark [Domain] Effective income tax rate Effective Income Tax Rate Reconciliation, Percent Net cash used by investing activities Net Cash Provided by (Used in) Investing Activities Operating income Operating Income (Loss) Number of reportable segments Number of Reportable Segments Total liabilities and shareholders' equity Liabilities and Equity Subsequent Events Subsequent Events [Text Block] Rule 10b5-1 Arrangement Terminated Rule 10b5-1 Arrangement Terminated [Flag] All Adjustments to Compensation All Adjustments to Compensation [Member] Right-of-use-assets Disposal Group, Including Discontinued Operation, Operating Lease Right of Use Asset Disposal Group, Including Discontinued Operation, Operating Lease Right of Use Asset Additional paid-in capital Additional Paid in Capital Derivative financial instruments Derivative Liability, Current Restructuring charges Restructuring charges Restructuring Charges Accumulated Other Comprehensive Income (Loss) [Line Items] Accumulated Other Comprehensive Income (Loss) [Line Items] Commitments and Contingencies Disclosure [Abstract] Commitments and Contingencies Disclosure [Abstract] Dividends paid Payments of Dividends Finite-Lived Intangible Assets, Major Class Name [Domain] Finite-Lived Intangible Assets, Major Class Name [Domain] Other current liabilities Other Liabilities, Current [Abstract] Number of lawsuits administratively consolidated Number of Lawsuits Administratively Consolidated Number of Lawsuits Administratively Consolidated Underlying Security Market Price Change Underlying Security Market Price Change, Percent Individual: Individual [Axis] Own shares held by ESOP Own Shares Held By Employee Stock Ownership Plan [Member] Own Shares Held By Employee Stock Ownership Plan [Member] Accumulated other comprehensive loss AOCI Attributable to Parent [Member] Net income before income taxes from continuing operations Income (Loss) Attributable to Noncontrolling Interest, before Tax Expected life of share options range (years) Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Expected Term Inventories Total inventories Inventory, Net Net cash used by investing activities - continuing Net Cash Provided by (Used in) Investing Activities, Continuing Operations Long-term Debt, Type [Domain] Long-Term Debt, Type [Domain] Product and Service [Axis] Product and Service [Axis] Entity Address, State or Province Entity Address, State or Province Property, Plant and Equipment [Line Items] Property, Plant and Equipment [Line Items] Statement [Line Items] Statement [Line Items] Defined benefit pension credit / (charge) Defined benefits pension credit / (charge) Net Periodic Defined Benefits Expense (Reversal of Expense), Excluding Service Cost Component Erroneous Compensation Analysis Erroneous Compensation Analysis [Text Block] Current assets held-for-sale Current assets Disposal Group, Including Discontinued Operation, Assets, Current Reconciliation of Operating Profit (Loss) from Segments to Consolidated Reconciliation of Operating Profit (Loss) from Segments to Consolidated [Table Text Block] Defined Benefit Plan Disclosure [Line Items] Defined Benefit Plan Disclosure [Line Items] Other liabilities Disposal Group, Including Discontinued Operation, Other Liabilities Compensation Actually Paid vs. Total Shareholder Return Compensation Actually Paid vs. Total Shareholder Return [Text Block] Ordinary shares Ordinary Shares [Member] Ordinary Shares [Member] Asia Pacific Asia Pacific [Member] Costs incurred Restructuring and Related Cost, Incurred Cost Minimum Minimum [Member] Restatement Determination Date Restatement Determination Date Adoption Date Trading Arrangement Adoption Date Pay vs Performance Disclosure Pay vs Performance Disclosure [Table] United Kingdom United Kingdom UNITED KINGDOM Property, Plant and Equipment [Table] Property, Plant and Equipment [Table] Right-of-use assets from operating leases Operating Lease, Right-of-Use Asset Erroneously Awarded Compensation Recovery Erroneously Awarded Compensation Recovery [Table] Segments [Axis] Segments [Axis] Change in Fair Value as of Vesting Date of Prior Year Equity Awards Vested in Covered Year Change in Fair Value as of Vesting Date of Prior Year Equity Awards Vested in Covered Year [Member] Property, plant and equipment, net Property, Plant and Equipment [Abstract] Drawn Long-Term Debt, Gross Exercise Price Award Exercise Price Loss on held for sale asset group Disposal Group, Not Discontinued Operation, Loss (Gain) on Write-down Dividend payable Dividends Payable, Current Selling, general and administrative expenses Disposal Group, Including Discontinued Operation, General and Administrative Expense Asset Acquisition [Table] Asset Acquisition [Table] Earnings per share Earnings Per Share [Text Block] Arrangement Duration Trading Arrangement Duration Discontinued operations Discontinued Operations [Member] Subsequent event Subsequent Event [Member] Goodwill and other identifiable intangible assets Goodwill and Intangible Assets Disclosure [Text Block] Basic from continuing operations (usd per share) Basic (loss) / earnings per ordinary share for continuing operations (usd per share) Income (Loss) from Continuing Operations, Per Basic Share Loss from discontinued operations, net of tax Net loss Discontinued Operation, Income (Loss) from Discontinued Operation During Phase-out Period, Net of Tax Peer Group Issuers, Footnote Peer Group Issuers, Footnote [Text Block] Segments [Domain] Segments [Domain] Material Terms of Trading Arrangement Material Terms of Trading Arrangement [Text Block] Amortization, year four Finite-Lived Intangible Asset, Expected Amortization, Year Four All Individuals All Individuals [Member] Schedule of Uncommitted Facilities Commitments Disclosure [Text Block] Diluted from discontinued operations (usd per share) Diluted earnings / (loss) per ordinary share for discontinued operations (usd per share) Income (Loss) from Discontinued Operations and Disposal of Discontinued Operations, Net of Tax, Per Diluted Share PEO PEO [Member] Adjusted EBITDA Adjusted EBITDA Adjusted EBITDA Adjusted EBITDA Income Tax Disclosure [Abstract] Income Tax Disclosure [Abstract] Name Trading Arrangement, Individual Name (Loss) / earnings / per share (Loss) / earnings per share using weighted average number of ordinary shares outstanding Earnings Per Share, Basic, Two Class Method [Abstract] Statement of Stockholders' Equity [Abstract] Statement of Stockholders' Equity [Abstract] Intangibles, net Intangible Assets, Net (Excluding Goodwill) Property, Plant and Equipment, Type [Axis] Long-Lived Tangible Asset [Axis] Disposal Group Name [Axis] Disposal Group Name [Axis] Income Statement, Balance Sheet and Additional Disclosures by Disposal Groups, Including Discontinued Operations [Line Items] Income Statement, Balance Sheet and Additional Disclosures by Disposal Groups, Including Discontinued Operations [Line Items] Awards Close in Time to MNPI Disclosures, Table Awards Close in Time to MNPI Disclosures [Table Text Block] Capital expenditure, discontinued operations Capital Expenditure, Discontinued Operations Disposal Groups, Including Discontinued Operations [Table] Disposal Groups, Including Discontinued Operations [Table] Prior Year End Fair Value of Equity Awards Granted in Any Prior Year that Fail to Meet Applicable Vesting Conditions During Covered Year Prior Year End Fair Value of Equity Awards Granted in Any Prior Year that Fail to Meet Applicable Vesting Conditions During Covered Year [Member] Related Party [Domain] Related and Nonrelated Parties [Domain] Beginning balance (in shares) Ending balance (in shares) Shares, Outstanding Retirement Plan Sponsor Location [Domain] Retirement Plan Sponsor Location [Domain] Aggregate Erroneous Compensation Amount Aggregate Erroneous Compensation Amount Restructuring Cost and Reserve [Line Items] Restructuring Cost and Reserve [Line Items] Gross profit Disposal Group, Including Discontinued Operation, Gross Profit (Loss) Local Phone Number Local Phone Number Total current maturities of long-term debt and short-term borrowings Debt, Long-Term and Short-Term, Combined Amount Aggregate Erroneous Compensation Not Yet Determined Aggregate Erroneous Compensation Not Yet Determined [Text Block] Forfeiture rate (%) Share-Based Compensation Arrangement By Share-Based Payment Award, Forfeiture Rate Share-Based Compensation Arrangement By Share-Based Payment Award, Forfeiture Rate Germany GERMANY Deferred tax liabilities Deferred Income Tax Liabilities, Net Asset Acquisition [Line Items] Asset Acquisition [Line Items] Risk-free interest rate (%), maximum Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Risk Free Interest Rate, Maximum Superform Aluminum Superplastic Superform Aluminum Superplastic [Member] Superform Aluminum Superplastic Share buyback (in shares) Stock Repurchased During Period, Shares Retirement Plan Sponsor Location [Axis] Retirement Plan Sponsor Location [Axis] Changes in assets and liabilities Increase (Decrease) in Operating Capital [Abstract] Bond and Guarantees Bonding Facility For Bank Guarantees [Member] Bonding Facility For Bank Guarantees [Member] Non-current liabilities Liabilities, Noncurrent [Abstract] PEO Total Compensation Amount PEO Total Compensation Amount Property, Plant and Equipment, Type [Domain] Long-Lived Tangible Asset [Domain] Property, Plant and Equipment, Net by Geographic Region Long-Lived Assets by Geographic Areas [Table Text Block] Commitments and Contingencies Commitments and Contingencies Disclosure [Text Block] Debt Disclosure [Abstract] Debt Disclosure [Abstract] Common stock Common Stock [Member] Measure: Measure [Axis] Forgone Recovery due to Expense of Enforcement, Amount Forgone Recovery due to Expense of Enforcement, Amount Current assets held-for-sale Increase (Decrease) in Other Current Assets Held For Sale Increase (Decrease) in Other Current Assets Held For Sale Entity Emerging Growth Company Entity Emerging Growth Company Advance payments Other Sundry Liabilities, Current Segment Reporting [Abstract] Segment Reporting [Abstract] Entity Central Index Key Entity Central Index Key Cost of goods sold Disposal Group, Including Discontinued Operation, Costs of Goods Sold Non-GAAP Measure Description Non-GAAP Measure Description [Text Block] Other restructuring costs Other Restructuring Costs Discontinued Operations and Disposal Groups [Abstract] Non-PEO NEO Average Compensation Actually Paid Amount Non-PEO NEO Average Compensation Actually Paid Amount Expected volatility range (%), minimum Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Expected Volatility Rate, Minimum Shareholders' Equity Equity [Text Block] Award Timing, How MNPI Considered Award Timing, How MNPI Considered [Text Block] Equity Component [Domain] Equity Component [Domain] Less current portion Long-Term Debt, Current Maturities Segmental Information Segment Reporting Disclosure [Text Block] Number of lawsuits Number Of Lawsuits Japan JAPAN Net cash provided by operating activities - discontinued Cash Provided by (Used in) Operating Activities, Discontinued Operations Additional 402(v) Disclosure Additional 402(v) Disclosure [Text Block] Share-based compensation APIC, Share-Based Payment Arrangement, Increase for Cost Recognition Entity Shell Company Entity Shell Company Entity Incorporation, State or Country Code Entity Incorporation, State or Country Code Schedule of Dividends Paid and Proposed Dividends Declared [Table Text Block] Committed Banking Facilities Committed Banking Facilities [Member] Committed Banking Facilities [Member] Title Trading Arrangement, Individual Title Defense, First Response & Healthcare Defense, First Response And Healthcare [Member] Defense, First Response And Healthcare Restructuring charge Disposal Group, Including Discontinued Operation, Restructuring Expense (Credit) Disposal Group, Including Discontinued Operation, Restructuring Expense (Credit) Statement [Table] Statement [Table] Counterparty Name [Axis] Counterparty Name [Axis] Defined benefit pension (credit) / charge Pension and Other Postretirement Benefits Expense (Reversal of Expense), Noncash Geographic Concentration Risk Geographic Concentration Risk [Member] Consolidation Items [Domain] Consolidation Items [Domain] City Area Code City Area Code Current liabilities Liabilities, Current [Abstract] Cost: Finite-Lived Intangible Assets [Roll Forward] Interest payments Interest Paid, Excluding Capitalized Interest, Operating Activities Disposal Group Classification [Domain] Disposal Group Classification [Domain] Insider Trading Policies and Procedures Not Adopted Insider Trading Policies and Procedures Not Adopted [Text Block] Concentration Risk Benchmark [Axis] Concentration Risk Benchmark [Axis] Total current assets Assets, Current Statement of Cash Flows [Abstract] Statement of Cash Flows [Abstract] Loan Notes Senior Notes [Member] Accrued liabilities Increase (Decrease) in Accrued Liabilities Borrowing capacity Line of Credit Facility, Remaining Borrowing Capacity Repurchase of own shares Payments for Repurchase of Common Stock Disposal related costs Disposal Group, Not Discontinued Operation, Disposal Cost Disposal Group, Not Discontinued Operation, Disposal Cost Schedule of Long-term Debt Instruments [Table] Schedule of Long-Term Debt Instruments [Table] Long-term debt Non-current debt Long-Term Debt, Excluding Current Maturities Schedule of Segment Reporting Information, by Segment [Table] Schedule of Segment Reporting Information, by Segment [Table] Accumulated Other Comprehensive Income (Loss) [Table] Accumulated Other Comprehensive Income (Loss) [Table] Restructuring Reserve [Roll Forward] Restructuring Reserve [Roll Forward] Subsequent Event Type [Axis] Subsequent Event Type [Axis] Income Taxes Income Tax Disclosure [Text Block] Basis of presentation and responsibility for interim financial statements Organization, Consolidation and Presentation of Financial Statements Disclosure and Significant Accounting Policies [Text Block] Earnings per ordinary share Earnings Per Share [Abstract] Shareholders' equity Equity [Abstract] Retained earnings Retained Earnings (Accumulated Deficit) Current liabilities held-for-sale Increase (Decrease) in Other Current Liabilities Held For Sale Increase (Decrease) in Other Current Liabilities Held For Sale Class of Stock [Domain] Class of Stock [Domain] Revenue from Contract with Customer Benchmark Revenue from Contract with Customer Benchmark [Member] Domestic plan Domestic Plan [Member] Inventories Increase (Decrease) in Inventories Schedule of Debt Schedule of Debt [Table Text Block] Deferred income taxes Deferred Income Taxes and Tax Credits Organization, Consolidation and Presentation of Financial Statements [Abstract] Organization, Consolidation and Presentation of Financial Statements [Abstract] Aggregate Available Trading Arrangement, Securities Aggregate Available Amount Equity Awards Adjustments Equity Awards Adjustments [Member] Net repayment of short-term borrowings Proceeds from (Repayments of) Short-Term Debt Net cash (used) / provided by financing activities Net Cash Provided by (Used in) Financing Activities Underlying Securities Award Underlying Securities Amount Utilization of shares from ESOP to satisfy share based compensation (in shares) Stock Issued During Period, Shares, Shares From Employee Stock Ownership Plan To Satisfy Share Based Compensation Stock Issued During Period, Shares, Shares From Employee Stock Ownership Plan To Satisfy Share Based Compensation Other share-based compensation charges Allocated Share-based Compensation Expense, Other Allocated Share-based Compensation Expense, Other Estate of Dependent Estate of Dependent [Member] Estate of Dependent Credit Facility [Axis] Credit Facility [Axis] Utilization of treasury shares to satisfy share based compensation Stock Issued During Period, Value, Treasury Stock Reissued To Satisfy Share Based Compensation Stock Issued During Period, Value, Treasury Stock Reissued To Satisfy Share Based Compensation Amendment Flag Amendment Flag Entity Registrant Name Entity Registrant Name Net drawdown of long-term borrowings Proceeds from (Repayments of) Long-Term Debt and Capital Securities Stock Appreciation Rights (SARs) Stock Appreciation Rights (SARs) [Member] Adjustment to Non-PEO NEO Compensation Footnote Adjustment to Non-PEO NEO Compensation Footnote [Text Block] Depreciation and amortization Depreciation and amortization Depreciation, Depletion and Amortization Gross profit Gross Profit Net change in foreign currency translation adjustment, net of tax Other Comprehensive Income (Loss), Foreign Currency Transaction and Translation Adjustment, Net of Tax, Portion Attributable to Parent Machinery and equipment Machinery and Equipment [Member] Fair Value as of Grant Date Award Grant Date Fair Value Subsequent Events [Abstract] Subsequent Events [Abstract] Pensions and other retirement benefits Assets for Plan Benefits, Defined Benefit Plan Unamortized debt issuance costs Debt Issuance Costs, Net Debt Debt Disclosure [Text Block] Geographical [Domain] Geographical [Domain] Recovery of Erroneously Awarded Compensation Disclosure [Line Items] Disaggregation of revenue Disaggregation of Revenue [Table Text Block] Technology and trading related Technology-Based Intangible Assets [Member] Entity Address, Postal Zip Code Entity Address, Postal Zip Code Schedule of Share-based Compensation Expense Share-Based Payment Arrangement, Expensed and Capitalized, Amount [Table Text Block] Schedule of Restructuring and Related Costs [Table] Restructuring Cost [Table] Restatement Determination Date: Restatement Determination Date [Axis] Title of 12(b) Security Title of 12(b) Security Concentration Risk Type [Axis] Concentration Risk Type [Axis] Other non-current liabilities Other Liabilities, Noncurrent [Abstract] Ordinary shares of Â£0.50 par value; authorized 40,000,000 shares for 2024 and 2023; issued and outstanding 28,944,000 for 2024 and 2023 Common Stock, Value, Issued Fiscal year Fiscal Period, Policy [Policy Text Block] Disclosure of Compensation Related Costs, Share-based Payments [Abstract] Share-Based Payment Arrangement [Abstract] Basic from discontinued operations (usd per share) Basic earnings /(loss) per ordinary share for discontinued operations (usd per share) Income (Loss) from Discontinued Operations and Disposal of

Discontinued Operations, Net of Tax, Per Basic Share Number of fatalities Number Of Fatalities Number Of Fatalities 4.94% Loan Notes due 2026 Loan Notes Due 2026 [Member] Loan Notes Due 2026 [Member] Cash and cash equivalents Cash and Cash Equivalents, at Carrying Value Other current liabilities Increase (Decrease) in Other Current Liabilities Year-over-Year Change in Fair Value of Equity Awards Granted in Prior Years That are Outstanding and Unvested Year-over-Year Change in Fair Value of Equity Awards Granted in Prior Years That are Outstanding and Unvested [Member] Land, buildings and leasehold improvements Land, Buildings and Improvements [Member] Finite-Lived Intangible Assets [Line Items] Finite-Lived Intangible Assets [Line Items] Financing activities Net Cash Provided by (Used in) Financing Activities [Abstract] Year-end Fair Value of Equity Awards Granted in Covered Year that are Outstanding and Unvested Year-end Fair Value of Equity Awards Granted in Covered Year that are Outstanding and Unvested [Member] Contingent liabilities Contingent Liabilities, Noncurrent Contingent Liabilities, Noncurrent Operating lease, liability, current, statement of financial position [extensible enumeration] Operating Lease, Liability, Current, Statement of Financial Position [Extensible Enumeration] Basic (usd per share) Earnings Per Share, Basic Injured Employee Injured Employee [Member] Injured Employee Accounts payable Increase (Decrease) in Accounts Payable Award Timing MNPI Disclosure Award Timing MNPI Disclosure [Text Block] Adjustment To PEO Compensation, Footnote Adjustment To PEO Compensation, Footnote [Text Block] Aggregate Pension Adjustments Service Cost Aggregate Pension Adjustments Service Cost [Member] Schedule of Goodwill [Table] Goodwill [Table] Held-for-sale Disposal Group, Held-for-Sale, Not Discontinued Operations [Member] Compensation Actually Paid vs. Other Measure Compensation Actually Paid vs. Other Measure [Text Block] Schedule of Stock by Class [Table] Stock, Class of Stock [Table] Total current liabilities Liabilities, Current Vesting Date Fair Value of Equity Awards Granted and Vested in Covered Year Vesting Date Fair Value of Equity Awards Granted and Vested in Covered Year [Member] Total assets Total assets Assets Amortization, year one Finite-Lived Intangible Asset, Expected Amortization, Year One Cost of goods sold Cost of Goods and Services Sold Income tax receivable Income Taxes Receivable, Current Capital expenditures Payments to Acquire Property, Plant, and Equipment Other non-current liabilities Total other non-current liabilities Other Liabilities, Noncurrent Forgone Recovery due to Violation of Home Country Law, Amount Forgone Recovery due to Violation of Home Country Law, Amount Commitments and contingencies (Note 16) Commitments and Contingencies Risk-free interest rate (%), minimum Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Risk Free Interest Rate, Minimum Other non-current liabilities Other Sundry Liabilities, Noncurrent Termination Date Trading Arrangement Termination Date Other non-current assets and liabilities Increase (Decrease) in Other Noncurrent Assets and Liabilities, Net Expected volatility range (%), maximum Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Expected Volatility Rate, Maximum Operating Activities [Domain] Operating Activities [Domain] General industrial General Industrial [Member] General Industrial [Member] Share Plans Share-Based Payment Arrangement [Text Block] Entity Address, City or Town Entity Address, City or Town Rest of Europe Rest Of Europe [Member] Rest Of Europe [Member] Debt Instrument [Axis] Debt Instrument [Axis] Total share-based compensation charges Share-Based Payment Arrangement, Expense Discontinued Operations Held-for-sale assets and liabilities Disposal Groups, Including Discontinued Operations, Disclosure [Text Block] Net (loss) / income Net (loss) / income Net income Net Income (Loss) Attributable to Parent Trading Arrangement: Trading Arrangement [Axis] Weighted average fair value of options granted (in USD per share) Share-Based Compensation Arrangements by Share-Based Payment Award, Options, Grants in Period, Weighted Average Exercise Price Pay vs Performance Disclosure, Table Pay vs Performance [Table Text Block] Loss Contingencies [Table] Loss Contingencies [Table] Schedule of Intangible Assets Schedule of Finite-Lived Intangible Assets [Table Text Block] Equity Awards Adjustments, Excluding Value Reported in Compensation Table Equity Awards Adjustments, Excluding Value Reported in the Compensation Table [Member] Dividends or Other Earnings Paid on Equity Awards not Otherwise Reflected in Total Compensation for Covered Year Dividends or Other Earnings Paid on Equity Awards not Otherwise Reflected in Total Compensation for Covered Year [Member] Entity File Number Entity File Number Insurance recoveries Insurance Recoveries Net Sales Revenue from Contract with Customer [Text Block] Document Fiscal Year Focus Document Fiscal Year Focus Income Statement [Abstract] Income Statement [Abstract] Entity Address, Address Line One Entity Address, Address Line One Share buyback Treasury Stock, Value, Acquired, Cost Method Weighted average ordinary shares outstanding Weighted average number of Â£0.50 ordinary shares: Weighted Average Number of Shares Outstanding Reconciliation [Abstract] Debt Instrument, Name [Domain] Debt Instrument, Name [Domain] Effect of exchange rate changes on cash and cash equivalents Effect of Exchange Rate on Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents, Continuing Operations Severance and other costs Severance Costs Dividends declared Dividends, Common Stock Name Forgone Recovery, Individual Name Document Period End Date Document Period End Date Short term provision Current Provisions Current Provisions Finished goods Inventory, Finished Goods, Net of Reserves Award Timing MNPI Considered Award Timing MNPI Considered [Flag] Uncommitted accordion facility Line of Credit Facility, Accordion Feature, Increase Limit Line of Credit Facility, Accordion Feature, Increase Limit Insider Trading Arrangements [Line Items] Transportation Transportation [Member] Transportation [Member] Supplementary balance sheet information Supplemental Balance Sheet Disclosures [Text Block] Outstanding Aggregate Erroneous Compensation Amount Outstanding Aggregate Erroneous Compensation Amount Overdrafts Bank Overdrafts Ongoing number of lawsuits Ongoing Number of Lawsuits Ongoing Number of Lawsuits PEO Actually Paid Compensation Amount PEO Actually Paid Compensation Amount Diluted from continuing operations (usd per share) Diluted (loss) / earnings per ordinary share for continuing operations (usd per share) Income (Loss) from Continuing Operations, Per Diluted Share Adjustment to Compensation: Adjustment to Compensation [Axis] Tax credit Discontinued Operation, Tax Effect of Income (Loss) from Discontinued Operation During Phase-out Period Document Transition Report Document Transition Report Document Quarterly Report Document Quarterly Report Pension and post-retirement actuarial gains, net of $0.1, $0.1, $0.2 and $5.0 tax, respectively Other Comprehensive (Income) Loss, Defined Benefit Plan, after Tax and Reclassification Adjustment, Attributable to Parent Accumulated other comprehensive loss Accumulated Other Comprehensive Income (Loss), Net of Tax Entity Current Reporting Status Entity Current Reporting Status Retained earnings Retained Earnings [Member] Accumulated amortization: Amortization [Abstract] Amortization of debt issuance costs Amortization of Debt Issuance Costs Pension Adjustments Service Cost Pension Adjustments Service Cost [Member] Overdraft Bank Overdrafts [Member] Derecognition of pension liability Defined Benefit Plan, Benefit Obligation, Divestiture Related Party [Axis] Related and Nonrelated Parties [Axis] Basic (in shares) For basic earnings per share (in shares) Weighted Average Number of Shares Outstanding, Basic Stock Price or TSR Estimation Method Stock Price or TSR Estimation Method [Text Block] Schedule of Revenues from External Customers and Long-Lived Assets [Table] Schedule of Revenues from External Customers and Long-Lived Assets [Table] North America North America [Member] Increase (Decrease) in Stockholders' Equity [Roll Forward] Increase (Decrease) in Stockholders' Equity [Roll Forward] Executive Category: Executive Category [Axis] Name Awards Close in Time to MNPI Disclosures, Individual Name Construction in progress Construction in Progress [Member] Accounts payable Disposal Group, Including Discontinued Operation, Accounts Payable, Current Entity Filer Category Entity Filer Category Letters of Credit Letter of Credit [Member] Loss Contingencies [Line Items] Loss Contingencies [Line Items] Company Selected Measure Name Company Selected Measure Name EX-101.PRE 11 lxfr-20240630_pre.xml XBRL TAXONOMY EXTENSION PRESENTATION LINKBASE DOCUMENT GRAPHIC 12 luxferholdingsplc-articl001.jpg

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(L(QP<*#7J#A(6&AXB)BI*3E)66EYB9FJ*CI*6FIZBIJK*SM+6VM[BYNL+#Q,7& MQ\C)RM+3U-76U]C9VN'BX^3EYN?HZ>KQ\O/T]?;W^/GZ_\0 'P$ P$! 0$! M 0$! 0 $" P0%!@<("0H+_\0 M1$
@$"! 0#! <%! 0 0)W $" M Q$$!2$Q!A)!40=A<1,B,H$(%$*1H;'!"2,S4O 58G+1"A8D-.$E\1<8&1HF M)R@I*C4V-S@Y.D-$149'2$E*4U155E=865IC9&5F9VAI:G-T=79W>'EZ@H.$
MA8:'B(F*DI.4E9:7F)F:HJ.DI::GJ*FJLK.TM;:WN+FZPL/$Q<;'R,G*TM/4 MU=;7V-G:XN/DY>;GZ.GJ\O/T]?;W^/GZ_]H # ,! (1 Q$ /P#W^BBB@ HH MHH **** "BBB@ HHHH **** "BBB@ HHHH
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_PBU_J&AV,.DZ_<+:1F*X9IDD8X#$$$8"D]!R<>E7M0^)DNC1>,H]1L MH8[S0F0VT:L<7*2\1'\R,XZ9H]&HJKIDMW/I5I-?PI#=R0HTT2$D(Y)49] M#Q7SWX,\4:CX>768-4F=M%UN2\AM)V3>$?
%M MUHO@OX>68A6X_MB1K>621SN0;B/(18PD>&K>*6$[C^^+1 ML^&]/NXXH [VBO*(?B1XMEOO#]O_ ,(]IF?$5J9M/'VQP4(4,6E.WA=IW8&3
MCC.:QO&7C'4/$7P@UJ:ZMEL]2TW6%L)UMI"59T=,H= \4:79V?VRT>[M);2=I0H0$LCY ^8 'D<<>]H..@P30!['17S?X>UG^ MTIK;Q=K:Z_ \NL^6=7@NAY,()PL'E$\QXQD[?:KGCRZ$.O\ B^?
6[_5;76;7 MRI/#X@>54$8&2R;?E_WB>G- 'T)17C%S<3>/O%/@W1M6GN4L+K0!J=Q%;RM% MYLS#&25QT(R*PSK>HZC\(-!AO+Z[NF37!936\,K"XU&%6/[M6').".N.G7.,
M@'T'17DGP[M+C5_#WBW1(-1U#25%Z8K>UED9[K3HR!P2W3=@XP3CGG-5?"+? M\(O\0/$.GVQO[*R@TMI8;#497=KR1&.;A"<@*=I& <\].. #V6BOGOP])=Z; M:^
O%PU&]EU37M5:VU$R3LR3(\C*!L)P-H'&._X5]"4 %%%% !1110 4444 M%%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4 M444 %%%% !1110 4444 %%%% !1110
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&7XBT"Q\3Z# M=Z-J*,UKM*GPSL+6Q*V5C>200>'[K[4N] [7#$Y;)R,9))[_2NYHH X>?X=)/%X MQ3^TV'_"2%23Y'_'OA2/[WS=?:N;UGPEK(^(7A*WTJ\N[0:=HS6XU1+3S(U= M1M <'Y?
F'\).>>#7KE% 'G$GPFBN/!NHZ/<:U/+J.HWHO[G46A7YY@<; M?]G/?*L6'PYNX=6U34K[7_M5QJ.E-IT@6R6)(P>C(%;@ ?P\Y.3GM7?T4 < M,/APG]A>$M,_M1L>'KN.Z$GD?Z_82=N-
WRYSUYKE_$>@CQC\9]*:#3-0BM-. M7_B:7$T!2"81MOB52>'RWZ?2O8:* "N 'PKL)/ >H^%KR\,Z75U)=QW/DA6@ MD8Y! RV"^3_P ?&Z(1YSN^7IG'-9EY*8KSPUKVBMJ[JNKZNVI MM*(.8LLIV
;N?N]>/I7HM% '$Z3X!N8?%"Z]KVORZU/;VS6EHDENL0BC;[Q; M:?G8@D9XZGVQGZ+\+KG1+JSM[?Q)+_8EGC4 M4 <[H?A5=%\3^(=:%X9CK,D+F(Q[?*\M2N,Y.[.?04_QCX5@\8:"=-FN)+61
M)4GM[F, M#*I^5L'KW&/>M^B@#B=&^'S6EOKTNJZWW6(1!AM)8@DNV.,FN\HH \ MS/PC'VEK-?$$Z^&7O_[0;2/LZ_ZS.=HESD)GMC]>:T?$O@#5/$&H7X3Q=?6N MCZBJ+=Z<8A*,+U$3,?
W8;O@?GTKNZ* .*U_P ;V[TB_T#5GT34-+MS:03+ L MRF C&PJQ'3L?\BF_PKM8?">C:3INJ3V=]I%Q]KMM0\L.3,22Q9#P0<],]A^/ MH-% '"6'PX,6D^((M0UV[N=5UUD:ZU&!1;LI3[FQ5/
'UY'%2:#X!NK/Q#_; MGB'7Y-[T;2+B2 MYT[3G@5?*=B3EI D444 %%%% !1110 4444 %%%% !1110 4444 M %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 M4444
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MI7Q,\':WJ<&FZKD5Q>3DK'$L<@+$ GJ5 Z T =91619>*=#U'0Y=:MM2A;3 M8BPDN7RB+MZYW8K/T+XB>ONHG3])UJ"XN\$B(JZ%L==NX#=^&: .GHK/LM M;TW4=1O["TNTENK!E6ZC
.8BP) .1WP>E4_$7C#0/"8MCKFHI9_:=WD[T9M^ MW&?N@]-P_.@#&?$\\\.C:M%=201^9* C+M7.,DL!5*R^*'@K4-7 M32[7Q!;27;OY:+M<*[= Y&TY[8/- '7445R%W\4O!%CJK:;<>(;5+E'V, &
M9%;T+@;1^)H Z^BL77?%V@^&K.VO-7U**VM[DXADPSA^,\;0>U1>'O&WASQ5 M/-#HFJ1WDD"AY%5'7:"< _,!0!OT57OKZVTRPN+Z]F6&UMXS)+(W15 R34.C
MZSIVOZ7%J6E7275G+G9*@(!P2#P>>H- %ZBN0F^*/@F#5VTN7Q#:K=*_EL,- ML#9Q@OC:/SK4\1>,- \)PPRZYJ<5HLQ(C!#,SXZX5021R.<=Z -NBLK0_$FC M^)=..H:/J$-W:J2K.A(VD!Y-
4&G+XCM#<%]@.&$9/_ %TQ ML_6@#L**S]9UW2_#VG-J&KWT-I:J0/,D/4GH .I/L*H^'?&OASQ6LQT358L MPC,B ,CJ/7:P!Q[XH WJ*S]&US3?$&EIJ>E7:W-FY8+* 5!(.#U /45#H/B; M1O$]K-U(Z
M=J>N0OW:XW1*CR%/][:"%_'%:=[XHT33_#XUZXU*$:4P4BZ0ET(8X&-N>_% M&O169=^(M)L8].DN+Z-8]2E2&S8 L)G<94 @=_7I6G0 4444 %%%% !1110 M4444 %%%% !1110 4444 %%%%
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4444 M %%%% !1110 4444 %%%% !1110 4444 %%%% !1110 5R'Q-\1MX9\!ZA=P M$_;9U%K:!?O&63@8]P,M^%=?6;JF@Z9K/M'M(=.U6PL=6L([*Z.H6C0*]XN2'7/7)X_X%5XW7BFP\?_ M
!&OO#6G:5?_ &=[=[B&]5VD($;8\L*0"<;L@GGC%>S:SH&E^((;>+5+1;A; M:9;B'+,I21F* .+ M^#>GZ=KB158G=(V,MR3UP* /GF(D? O2O.S_9Q\2C[?CIY.YL[O;.W\<5[/ MJ\O@J/7_
VE]':MJ+OC23"I)7@=-G1>G)^6MBR*Z'I^ARZ);;;"-,F+&2V M?+JQ;DYW$U0T'X>>$_#.H&_TC18;>[(($I=W90>NW<3M_#% ',^ I8X_BA\1 MM[JN;JUQN./X'JE\5Q>3>-_ (TN:T2[:>[\F2Z!:
(';']X#J.M=9JGPP\&:U MJ<^HZCH<4]W.VZ64RR L<8Z!@.U2WOPY\):CI>GZ9=Z-'+9Z>'%K$99 (PY! M;!#9.2!US0!0LX=7@T+7#XPOM'>Q-FX9])A=72/:WF$CDGC&,"O,+G[?X6\$
M:5>3W&A^*O!44Z-:H\9@NDR3@J!CYADYR2>N1Z>QZ#X!\+^&+J:YT?2(K6:: M(PR,'=]R$@D$,2.H%4K;X5^"+/55U*#P];+W[#MQ[YQ7GG@,^%?^%%+]I^Q?9/LLO]H;]N?-^;.[ON MZ8[_
'<=J]9KC[SX6>"+_5&U*X\/6S7+/O8AG5&;U* A3^5 'CX75W^''PN6 M/ROMYU8BU^U@F/'F'R]^.=N,=.U>X>%[?Q+!'TG4GTYKNRCA ! XP..E:= 'EGQLUDKI&F>&88[F
M:75[E?/CM(S)+]FC(9]JCDGI^1K.^$VN6^G>)?$?AI;.^L+"1CJ>G6]Y;M%(ML9X=0IYP#C&,YP:]2DT'3)?$$6NR6BMJ<,)@CG+-E$))(S@=3SC/-%SH&EW M>N6FM36BMJ5FC1P7
9@55LY'!P1R>N>M 'A)M;G1? %[?:'J.B>)/ PG:5[+ M4(FAG7Y_NYX.[.,$G)XP.<5U>OQ0:[XC*WWAS6HM'\2_P!E":SL[ZW+Q26[MC.W<00&'S#C)QZ8S767'PJ\#W6JMJ4WAZV:Y9_,;YG",W7)0-
M/Y5J>(?!OA M[Q5;PPZUI<-TD'^J.2C)[!E((' XSVH \D74[Z;P=\2=,E6-KK]I&C7USI M,8KD-G<<$G#!=^>G4\#%;]__,(K_P ,\'9]B^R?V4/*QMS]JV&+![+1M.AM+>0[G5=GZ4 >>$RG5?A&/$G_
!X_9'W?:/N^?Y0\O=G^+_5XSWS[UZ.)?"/_ M L*6*!(?^G^PN\2L3Y.>C$?*#G'7G&WVK:QM4099GDD8' '.=N['OBI/AOJ-KX6^(MMI5MI^J6&F:Q81PD:C:M! MNNXEY9<]=PS^+UZU;>!?
#5G#ID,&EHD6ES-/9IYCD12,RDU&T6=[*<7%LVYE,<@Z,""* .#\6P0CXU^ E$485H[W<-HP?W1IWB-5 M3X[>"%50H%G>8 &!_JVKN[K0M-O=9L=7N+59+^P#BVF+$&,.,-P#@Y'K1<:%
MIMWK=GK,]JKZA9(Z6\Y8Y0,,,,9P<@GJ* /-?@R=+_X1;6_[4^S?VM]OG_M7 M[3MW]?X]W\/7KQG=[UPS@-\!O%(M]W]E'7R-/ST\GS8\;?;K^.:]JUKX;>#_ M !#J1U'4]#@FNVY>57>,O_O;2
WXUIWGA?1+_0%T&XTV$Z4NW;:IE$&TY&-I M'?F@#PN]>_\ #?BGPOX"U R2QZ?XBMKK3+EO^6EHS$!2?56./S'0"OHNLK5/ M#>CZU?Z??:A8QSW6GR^;:RDD-
$V0$:D$OCV_J*]&/(KQ3P/XLL_AAHMWX6\3VM];WMK= M2M;M';-(MXC'*E"!C)]\=N>N #J+_P"+%E'X)T_Q)IFFS7QO+Y;#[&\HA>*4
MALJQ((R"H_,&MSPYK_B35=0D@UCPA+HUNL1=;A[^.8,V0 FU>1P2<^U>,W_A MW5$^&5G)?VES9S:QXM2^$" B2WC=6 _W3QGVXKVSPUX2A\,R7#Q:QK-_YX4$ M:C>&<)C/W<@8SGG*
.AHHHH **** "BBB@ HHHH **** "BBB@ HHHH *** M* "BBB@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH M **** "BBB@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH
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**** "BBB@ HHI&.%)]J %HKBOA1XAU+Q1X L]5U:<3 MWDDLJLX14R%<@<* .@INC^(-3N_BYXCT*:X#:=9VDL.Q1L9E4L=V,GJ>IH M [>BO--"UCQ1XFMO'5G::L(+_3]4FM]-
D,9:J3M0@K@@XQDY/.:S?"WCOQ M-XYU_2]*M$?3/[,0MXAD:%3NE#%1$NX';N*D^HR?[O(!Z[17B,WC#6KOQEXE
ML+CXBV7AVVL+SRK:&XLH)"Z\]"V#QCWZUI>.O$^NZ!=^#M.C\80645_#,;S5 MGLHV1RJH5?8> #GH#_%0!ZY17ENF:_J*^%?%.I6_C^U\12V.G22Q>181Q?9I M CLK'&=V=O0\<5Q\GC_Q-
8^$;+Q!%\0]+U+4)!$S:%]CA\UBQ *?(=V1GT'2 M@#Z"HJ!99'L1,R&*0Q[BAY*G&F.W- 'M5%>47?C3Q'>Z3X(T72+B&&7O$%FMQ/?S1!EA01AG8)T)/S M8&,<8[\6H-7\5>#/&NBZ-XAUF+7--
UHO%#<_95@E@E4 X(7@J<@?CVQR >FT M5Q/@#Q#J>NZGXMAU"<2QZ?K$MK; (J[(U)P.!S]3S6;XUU7Q*_Q&T#PUH6N# M2HK^UFEDE-I'/\R GHWTQUH](HKS+2/%'B32]?U_P
*Z_>V]]>VNF-J-EJ$ M4 B+H!C#(.,@D?D>M0G^D*C-\N ..!C MY<&@#W6BO.K/QU+K?CSPO%I=V#HNJ:9-HK(T_6O%_ MCJWU'7].\4VGAO1(+E[>S1[2.4S;3C?
(S_=R2!Q^7'(!ZY17FFJ^+/%6F?"* MYUADL+C7+=A'++9,)XE7< 9,#C(4Y(Z#KTXJIX$\1ZQJ?B.VCMO&VG>)M+EA M9KE)+=+6YMV X*Q@989P#GIF@#U:BN,^*FO:CX:^'FHZKI-
P(+V%H@DA17QN MD53PP(Z$UR%EXM\1:/XU\.:;-XOT[Q/;:L[1S0P6T(=7L#W5Q?RQ"7R(5R!M4\$D@]?;Z@ [ZBN2*VOC/3M5O;+Q%?VVJZ:$ M5[74C6&4MW1HUXQ[^W?/'6T %%%% !1110

M'"@D8R<5GZ3XP%QI]CJ&IW-A:V\NB1:G.@+^9&6QN;T\L=.NT>VMS*L@$(C,3D<)@@G+8&&ZUSESX?UAO"Y@73+LR_P#"#QV> MP1'/G@\QX_O>W6@#T4>-
_#1T]KY=6A:V$YM@ZACOD SM0 9 M4Z5"DLT!<)M81LC97"E3M7(X[9K)@T6]MX[;7H[#6[]"+71?3PWJH;B=/(,7
MG"%$7:02#MQN.W/7B@#J=6^(VB6.F6M]:W"743SP!U='<7&B7'BF&ZT#4[YM8G-U:O!:-(LR M/"B")STC*E2#OP,&@#K;[Q9H.FZC!I]WJ<,=W/Y9BAY9G#DA2, \$J1GI5S5 M-
7T_1+/[7J5U';0;@@9S]YCT4 >(FT;P'- MX@OW@NG@M&N";='C24XRH ;K6FE7L,%^^G16\$L M!2:8PS O(8S\P&"!R <)7>>+[2?4/!6NV=K&9;BXT^XBBC'5F:-@ /J30!@_
M\+&T^+5]/CNIH8=/O-,-XDFUR[2B0*450,D8W'IGC/2M^7Q7H4.C6^KO]#P!G@^E>,=)U5M-O(($\/FW+7-NT;1R"9A(4GW'-T&CZBT6KVMO9:EJ@E_L^!7GB6:8F.18V1MRD
CA2<-D=Z M/5M+U:PUJR%WIUU'<0%BA9/X6'52#R"/0\U0U'Q?X?TF_-C?:I!#<+M+JW_ +8OWCU91?70<2:IL26;:BKYGEJB>7G&,$9.W)QF
MLL27.@7'BJQNO#E[JLNJ7CW%J(]8R072/&BB.1\%4 *E3OP,FSO\ 5(89PH9U.3Y:GH7(!" ^K8I=5\7:!HLPAU#4X896B$RQ@%F9"2 P M"@DCY3R.F*Y&!
[KPZ_BBRO/#U]>2ZI,9[8V=L9HI5:%$$3.!A I4CY\#'(JQ MX1\/7^D>)=/6^@9S:^&+:R>XQE/,61BR!N_;\,4 ='9^,_#FH:C!86>KVT]S M.NZ%4)*R?+NPK?=)QSC.:;!XW\-75['9PZO
\TDGDJ!G:9,D;-V,!N/NYR?2 MN/T?1-0M_!GP]MCIT_\ &GAS2[Y[.]U6&*:-E67(M8K$3T#L!M0\C[Q'6G:IXQ\/Z+O./% M$&O:AIWBS3A:ZS%/-
+.+:PT[3D6WN4(PLKSE#O9@,D!PV1@"NRT#3KA?&FMW ML]G(D4^FV,4XRN1]* .CM=9TV]NDMK6\BFE>W6Z14.=T+'"N M#T()':I;&_M=2MS<6-J
@_W91$<>F:]'TBVB\-6&C>'X;:ZE18#']H2/,:E%!+2- MV+$DCU.: -NBBB@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH **** "B MBB@ HHHH **** "BBB@
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HHHH **** "BBB@ MHHHHH **** "BBB@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH **** "B MBB@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH **** "BBB@ HHHH *** M*
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HHHH **** "BBB@ HHHH # __9 end XML 54 R1.htm IDEA: XBRL DOCUMENT

~~Cover~~	~~6 Months Ended~~
	~~Jun. 30, 2024~~
	~~shares~~

~~Cover [Abstract]~~ ~~Document Type~~~~10-Q~~~~Document Quarterly Report~~~~true~~~~Document Period End Date~~~~Jun. 30, 2024~~~~Document Transition Report~~~~false~~~~Entity File Number~~~~001-35370~~ ~~Entity Registrant Name~~~~Luxfer Holdings PLC~~~~Entity Incorporation, State or Country Code~~~~X0~~~~Entity Tax Identification Number~~~~98-1024030~~~~Entity Address, Address Line One~~ ~~8989 North Port Washington Road, Suite 211~~~~Entity Address, City or Town~~~~Milwaukee~~~~Entity Address, State or Province~~~~WI~~~~Entity Address, Postal Zip Code~~~~53217~~~~Country Region~~ ~~+1~~~~City Area Code~~~~414~~~~Local Phone Number~~~~269-2419~~~~Title of 12(b) Security~~~~Ordinary Shares, nominal value £0.50 each~~~~Trading Symbol~~~~LXFR~~~~Security Exchange Name~~~~NYSE~~~~Entity Current Reporting Status~~~~Yes~~~~Entity Interactive Data Current~~~~Yes~~~~Entity Filer Category~~~~Accelerated Filer~~~~Entity Small Business~~~~false~~~~Entity Emerging Growth Company~~~~false~~~~Entity Shell Company~~~~false~~~~Entity Common Stock, Shares Outstanding (in shares)~~~~27,386,677~~~~Entity Central Index Key~~~~0001096056~~~~Current Fiscal Year End Date~~~~--12-31~~~~Document Fiscal Year Focus~~~~2024~~~~Document Fiscal Period Focus~~~~Q2~~~~Amendment Flag~~~~false~~~~Entity Address, Country~~~~US~~

~~- Definition~~

~~Boolean flag that is true when the XBRL content amends previously-filed or accepted submission.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:dei_AmendmentFlag~~ ~~Namespace Prefix:dei_ Data Type:xbrli:booleanItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Area code of city~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:dei_CityAreaCode~~ ~~Namespace Prefix:dei_ Data Type:xbrli:normalizedStringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Region code of country~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:dei_CountryRegion~~ ~~Namespace Prefix:dei_ Data Type:xbrli:normalizedStringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Cover page.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:dei_CoverAbstract~~ ~~Namespace Prefix:dei_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~End date of current fiscal year in the format --MM-DD.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:dei_CurrentFiscalYearEndDate~~ ~~Namespace Prefix:dei_ Data Type:xbrli:gMonthDayItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Fiscal period values are FY, Q1, Q2, and Q3. 1st, 2nd and 3rd quarter 10-Q or 10-QT statements have value Q1, Q2, and Q3 respectively, with 10-K, 10-KT or other fiscal year statements having FY.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:dei_DocumentFiscalPeriodFocus~~ ~~Namespace Prefix:dei_ Data Type:dei:fiscalPeriodItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~This is focus fiscal year of the document report in YYYY format. For a 2006 annual report, which may also provide financial information from prior periods, fiscal 2006 should be given as the fiscal year focus. Example: 2006.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:dei_DocumentFiscalYearFocus Namespace Prefix:dei_ Data Type:xbrli:gYearItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~For the EDGAR submission types of Form 8-K: the date of the report, the date of the earliest event reported; for the EDGAR submission types of Form N-1A: the filing date; for all other submission types: the end of the reporting or transition period. The format of the date is YYYY-MM-DD.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:dei_DocumentPeriodEndDate Namespace Prefix:dei_ Data Type:xbrli:dateItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Boolean flag that is true only for a form used as an quarterly report.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Form 10-Q -Number 240 -Section 308 -Subsection a~~

~~+ Details~~
~~Name:dei_DocumentQuarterlyReport Namespace Prefix:dei_ Data Type:xbrli:booleanItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Boolean flag that is true only for a form used as a transition report.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Forms 10-K, 10-Q, 20-F -Number 240 -Section 13 -Subsection a-1~~

~~+ Details~~
~~Name:dei_DocumentTransitionReport Namespace Prefix:dei_ Data Type:xbrli:booleanItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~The type of document being provided (such as 10-K, 10-Q, 485BPOS, etc). The document type is limited to the same value as the supporting SEC submission type, or the word 'Other'.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:dei_DocumentType Namespace Prefix:dei_ Data Type:dei:submissionTypeItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Address Line 1 such as Attn, Building Name, Street Name~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:dei_EntityAddressAddressLine1 Namespace Prefix:dei_ Data Type:xbrli:normalizedStringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Name of the City or Town~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:dei_EntityAddressCityOrTown Namespace Prefix:dei_ Data Type:xbrli:normalizedStringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~ISO 3166-1 alpha-2 country code.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:dei_EntityAddressCountry Namespace Prefix:dei_ Data Type:dei:countryCodeItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Code for the postal or zip code~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:dei_EntityAddressPostalZipCode Namespace Prefix:dei_ Data Type:xbrli:normalizedStringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Name of the state or province.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:dei_EntityAddressStateOrProvince Namespace Prefix:dei_ Data Type:dei:stateOrProvinceItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~A unique 10-digit SEC-issued value to identify entities that have filed disclosures with the SEC. It is commonly abbreviated as CIK.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2~~

~~+ Details~~
~~Name:dei_EntityCentralIndexKey Namespace Prefix:dei_ Data Type:dei:centralIndexKeyItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Indicate number of shares or other units outstanding of each of registrant's classes of capital or common stock or other ownership interests, if and as stated on cover of related periodic report. Where multiple classes or units exist define each class/interest by adding class of stock items such as Common Class A [Member], Common Class B [Member] or Partnership Interest [Member] onto the Instrument [Domain] of the Entity Listings, Instrument.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:dei_EntityCommonStockSharesOutstanding Namespace Prefix:dei_ Data Type:xbrli:sharesItemType Balance Type:na Period Type:instant~~

~~- Definition~~

~~Indicate 'Yes' or 'No' whether registrants (1) have filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that registrants were required to file such reports), and (2) have been subject to such filing requirements for the past 90 days. This information should be based on the registrant's current or most recent filing containing the related disclosure.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:dei_EntityCurrentReportingStatus Namespace Prefix:dei_ Data Type:dei:yesNoItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Indicate if registrant meets the emerging growth company criteria.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2~~

~~+ Details~~
~~Name:dei_EntityEmergingGrowthCompany Namespace Prefix:dei_ Data Type:xbrli:booleanItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Commission file number. The field allows up to 17 characters. The prefix may contain 1-3 digits, the sequence number may contain 1-8 digits, the optional suffix may contain 1-4 characters, and the fields are separated with a hyphen.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:dei_EntityFileNumber Namespace Prefix:dei_ Data Type:dei:fileNumberItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Indicate whether the registrant is one of the following: Large Accelerated Filer, Accelerated Filer, Non-accelerated Filer. Definitions of these categories are stated in Rule 12b-2 of the Exchange Act. This information should be based on the registrant's current or most recent filing containing the related disclosure.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2~~

~~+ Details~~
~~Name:dei_EntityFilerCategory Namespace Prefix:dei_ Data Type:dei:filerCategoryItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Two-character EDGAR code representing the state or country of incorporation.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:dei_EntityIncorporationStateCountryCode Namespace Prefix:dei_ Data Type:dei:edgarStateCountryItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Boolean flag that is true when the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit such files).~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-T -Number 232 -Section 405~~

~~+ Details~~
~~Name:dei_EntityInteractiveDataCurrent Namespace Prefix:dei_ Data Type:dei:yesNoItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~The exact name of the entity filing the report as specified in its charter, which is required by forms filed with the SEC.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2~~

~~+ Details~~
~~Name:dei_EntityRegistrantName Namespace Prefix:dei_ Data Type:xbrli:normalizedStringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Boolean flag that is true when the registrant is a shell company as defined in Rule 12b-2 of the Exchange Act.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2~~

~~+ Details~~
~~Name:dei_EntityShellCompany Namespace Prefix:dei_ Data Type:xbrli:booleanItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Indicates that the company is a Smaller Reporting Company (SRC).~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2~~

~~+ Details~~
~~Name:dei_EntitySmallBusiness Namespace Prefix:dei_ Data Type:xbrli:booleanItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~The Tax Identification Number (TIN), also known as an Employer Identification Number (EIN), is a unique 9-digit value assigned by the IRS.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2~~

~~+ Details~~
~~Name:dei_EntityTaxIdentificationNumber Namespace Prefix:dei_ Data Type:dei:employerIdItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Local phone number for entity.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:dei_LocalPhoneNumber Namespace Prefix:dei_ Data Type:xbrli:normalizedStringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Title of a 12(b) registered security.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b~~

~~+ Details~~
~~Name:dei_Security12bTitle Namespace Prefix:dei_ Data Type:dei:securityTitleItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Name of the Exchange on which a security is registered.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection d1-1~~

~~+ Details~~
~~Name:dei_SecurityExchangeName Namespace Prefix:dei_ Data Type:dei:edgarExchangeCodeItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Trading symbol of an instrument as listed on an exchange.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:dei_TradingSymbol Namespace Prefix:dei_ Data Type:dei:tradingSymbolItemType Balance Type:na Period Type:duration XML 55 R2.htm IDEA: XBRL DOCUMENT~~
~~CONDENSED CONSOLIDATED STATEMENTS OF (LOSS) / INCOME (UNAUDITED) - USD ($) $ in Millions3 Months Ended6 Months Ended~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Income Statement [Abstract] Net sales$ 99.7$ 110.4$ 189.1$ 211.7Cost of goods sold(77.7)(86.2)(148.7)(166.4)Gross profit22.024.240.445.3Selling, general and administrative expenses(11.9)(12.8)(23.5)(25.3)Research and development(1.1)(1.0)(2.3)(2.2)Restructuring charges(1.1)(2.5)(1.8)(2.8)Acquisition and disposal related costs (9.2)0.0(9.4)0.0Other income5.10.05.30.0Operating income3.87.98.715.0Net interest expense(1.3)(1.8)(2.7)(3.1)Defined benefit pension credit / (charge)0.20.60.5(8.3) Income before income taxes2.76.76.53.6(Provision) / credit for income taxes(3.1)(1.8)(4.1)1.8Net (loss) / income from continuing operations(0.4)4.92.45.4Loss from discontinued operations, net of tax(0.1)(0.2)(0.2)(0.2)Net loss from discontinued operations(0.1)(0.2)(0.2)(0.2)Net (loss) / income$ (0.5)$ 4.7$ 2.2$ 5.2(Loss) / earnings / per share Basic from continuing operations (usd per share)[1]$ (0.01)$ 0.18$ 0.09$ 0.20Basic from discontinued operations (usd per share)[1],[2](0.01)(0.01)(0.01)(0.01)Basic (usd per share)[1](0.02)0.170.080.19Diluted from continuing operations (usd per share)[1](0.01)0.180.090.20Diluted from discontinued operations (usd per share)[1],[2]0 (0.01)(0.01)(0.01)Diluted (usd per share)[1]$ (0.02)$ 0.17$ 0.08$ 0.19Weighted average ordinary shares outstanding Basic (in shares)26,831,37226,923,80426,826,123 26,922,528Diluted (in shares)26,932,29127,065,33826,892,23027,083,986~~

~~[1] The calculation of earnings per share is performed separately for continuing and discontinued operations. As a result, the sum of the two in any particular period may not equal the earnings-per-share amount in total.~~

~~[2] The loss per share for discontinued operations has not been diluted, since the incremental shares included in the weighted-average number of shares outstanding would have been anti-dilutive.~~

~~- Definition~~

~~Disposal Group, Not Discontinued Operation, Disposal Cost And Loss (Gain) On Write-Down~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:lxfr_DisposalGroupNotDiscontinuedOperationDisposalCostAndLossGainOnWriteDown Namespace Prefix:lxfr_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~The aggregate costs related to goods produced and sold and services rendered by an entity during the reporting period. This excludes costs incurred during the reporting period related to financial services rendered and other revenue generating activities.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(2)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(2)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 924 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 11.L) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479941/924-10-S99-1~~

~~+ Details~~

~~Name:us-gaap_CostOfGoodsAndServicesSold Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Amount after tax of income (loss) from operations classified as a discontinued operation. Excludes gain (loss) on disposal and provision for gain (loss) until disposal.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3A -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3AReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3~~

~~+ Details~~

~~Name:us-gaap_DiscontinuedOperationIncomeLossFromDiscontinuedOperationDuringPhaseOutPeriodNetOfTax Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Definition~~

~~The amount of net income (loss) for the period per each share of common stock or unit outstanding during the reporting period.~~

~~+ References~~

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~~+ Details~~

~~Name:us-gaap_EarningsPerShareBasic Namespace Prefix:us-gaap_ Data Type:dtr-types:perShareItemType Balance Type:na Period Type:duration~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_EarningsPerShareBasicTwoClassMethodAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~The amount of net income (loss) for the period available to each share of common stock or common unit outstanding during the reporting period and to each share or unit that would have been outstanding assuming the issuance of common shares or units for all dilutive potential common shares or units outstanding during the reporting period.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 52 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-52Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-15Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (e)(4) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-7Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-2Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7~~

~~***+ Details***~~

~~***Name:us-gaap_EarningsPerShareDiluted Namespace Prefix:us-gaap_ Data Type:dtr-types:perShareItemType Balance Type:na Period Type:duration***~~

~~***- Definition***~~

~~***Aggregate revenue less cost of goods and services sold or operating expenses directly attributable to the revenue generation activity.***~~

~~***+ References***~~

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~~***+ Details***~~

~~***Name:us-gaap_GrossProfit***~~ ~~***Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration***~~

~~***- Definition***~~

~~***Amount after tax of income (loss) from continuing operations attributable to the parent.***~~

~~***+ References***~~

~~***Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(13)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 10: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 11: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 810 -SubTopic 10 -Section 45 -Paragraph 18 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-18***~~

~~+ Details~~

~~Name:us-gaap_IncomeLossFromContinuingOperations Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Definition~~

~~Amount of income (loss) from continuing operations, including income (loss) from equity method investments, before deduction of income tax expense (benefit), and income (loss) attributable to noncontrolling interest.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 7: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(11)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 9: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-31Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 235 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-05(b)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477314/942-235-S99-1Reference 11: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(10)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 12: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(15)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1~~

~~+ Details~~

~~Name:us-gaap_IncomeLossFromContinuingOperationsBeforeIncomeTaxesExtraordinaryItemsNoncontrollingInterest Namespace Prefix:us-gaap_ Data Type: xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Definition~~

~~The amount of net income (loss) from continuing operations per each share of common stock or unit outstanding during the reporting period.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher~~

~~***FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(13)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-2Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 13: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7Reference 17: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1***~~

~~+ Details~~

~~Name:us-gaap_IncomeLossFromContinuingOperationsPerBasicShare Namespace Prefix:us-gaap_ Data Type:dtr-types:perShareItemType Balance Type:na Period Type: duration~~

~~- Definition~~

~~The amount of net income (loss) derived from continuing operations during the period available to each share of common stock or common unit outstanding during the reporting period and to each share or unit that would have been outstanding assuming the issuance of common shares or units for all dilutive potential common shares or units outstanding during the reporting period.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(13)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-2Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 12: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7~~

~~+ Details~~

~~Name:us-gaap_IncomeLossFromContinuingOperationsPerDilutedShare Namespace Prefix:us-gaap_ Data Type:dtr-types:perShareItemType Balance Type:na Period Type: duration~~

~~- Definition~~

~~Amount after tax of income (loss) from a discontinued operation attributable to the parent. Includes, but is not limited to, the income (loss) from operations during the phase-out period, gain (loss) on disposal, gain (loss) for reversal of write-down (write-down) to fair value, less cost to sell, and adjustments to a prior period gain (loss) on disposal.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 19 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-19Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3A -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3AReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3B -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3BReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-4Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-1Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3~~

~~+ Details~~
~~Name:us-gaap_IncomeLossFromDiscontinuedOperationsNetOfTaxAttributableToReportingEntity Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type: credit Period Type:duration~~

~~- Definition~~

~~Per basic share amount, after tax, of income (loss) from the day-to-day business activities of the discontinued operation and gain (loss) from the disposal of the discontinued operation.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(14)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2~~

~~+ Details~~
~~Name:us-gaap_IncomeLossFromDiscontinuedOperationsNetOfTaxPerBasicShare Namespace Prefix:us-gaap_ Data Type:dtr-types:perShareItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Per diluted share amount, after tax, of income (loss) from the day-to-day business activities of the discontinued operation and gain (loss) from the disposal of the discontinued operation.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 5 -Subparagraph (SAB Topic 5.E) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479836/810-10-S99-5~~

~~+ Details~~

~~Name:us-gaap_IncomeLossFromDiscontinuedOperationsNetOfTaxPerDilutedShare Namespace Prefix:us-gaap_ Data Type:dtr-types:perShareItemType Balance Type:na Period Type:duration~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_IncomeStatementAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Amount of current income tax expense (benefit) and deferred income tax expense (benefit) pertaining to continuing operations.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 231 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482663/740-10-55-231Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 6.I.7) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479360/740-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-10Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Subparagraph (a) -SubTopic 20 -Topic 740 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482659/740-20-45-2Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(h)) -SubTopic 10 -Topic 235 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1~~

~~***+ Details***~~

~~***Name:us-gaap_IncomeTaxExpenseBenefit Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration***~~

~~***- Definition***~~

~~***Amount of interest expense classified as nonoperating.***~~

~~***+ References***~~

~~***Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2***~~

~~+ Details~~

~~Name:us-gaap_InterestExpenseNonoperating Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~The portion of profit or loss for the period, net of income taxes, which is attributable to the parent.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name 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https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 17: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-10Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479105/946-220-45-7Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 31: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 32: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 34: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 37: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1~~

~~+ Details~~
~~Name:us-gaap_NetIncomeLoss Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Definition~~

~~Amount of expense (reversal of expense) for net periodic benefit cost components, excluding service cost component, of defined benefit plan. Amount includes, but is not limited to, interest cost, expected (return) loss on plan asset, amortization of prior service cost (credit), amortization of (gain) loss, amortization of transition (asset) obligation, settlement (gain) loss, curtailment (gain) loss and certain termination benefits.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3A -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480535/715-20-45-3A~~

~~+ Details~~
~~Name:us-gaap_NetPeriodicDefinedBenefitsExpenseReversalOfExpenseExcludingServiceCostComponent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType~~

~~***Balance Type:debit Period Type:duration***~~

~~***- Definition***~~

~~***Amount of revenue earned, classified as other, excluding interest income.***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(13)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(1)(e)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2***~~

~~***+ Details***~~

~~***Name:us-gaap_NoninterestIncomeOtherOperatingIncome Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration***~~

~~***- Definition***~~

~~***The net result for the period of deducting operating expenses from operating revenues.***~~

~~***+ References***~~

~~***Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-31***~~

~~+ Details~~

~~Name:us-gaap_OperatingIncomeLoss Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Definition~~

~~Amount of expense for research and development. Includes, but is not limited to, cost for computer software product to be sold, leased, or otherwise marketed and writeoff of research and development assets acquired in transaction other than business combination or joint venture formation or both. Excludes write-down of intangible asset acquired in business combination or from joint venture formation or both, used in research and development activity.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 730 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482916/730-10-50-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 912 -SubTopic 730 -Name Accounting Standards Codification -Section 25 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479532/912-730-25-1~~

~~+ Details~~

~~Name:us-gaap_ResearchAndDevelopmentExpense Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Amount of restructuring charges, remediation cost, and asset impairment loss.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2~~

~~+ Details~~

~~Name:us-gaap_RestructuringSettlementAndImpairmentProvisions Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Amount, excluding tax collected from customer, of revenue from satisfaction of performance obligation by transferring promised good or service to customer. Tax collected from customer is tax assessed by governmental authority that is both imposed on and concurrent with specific revenue-producing transaction, including, but not limited to, sales, use, value added and excise.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-41Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 4: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 5: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 924 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 11.L) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479941/924-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-5Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-42Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-40Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-4~~

~~+ Details~~
~~Name:us-gaap_RevenueFromContractWithCustomerExcludingAssessedTax Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Definition~~

~~The aggregate total costs related to selling a firm's product and services, as well as all other general and administrative expenses. Direct selling expenses (for example, credit, warranty, and advertising) are expenses that can be directly linked to the sale of specific products. Indirect selling expenses are expenses that cannot be directly linked to the sale of specific products, for example telephone expenses, Internet, and postal charges. General and administrative expenses include salaries of non-sales personnel, rent, utilities, communication, etc.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2~~

~~+ Details~~
~~Name:us-gaap_SellingGeneralAndAdministrativeExpense Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~The average number of shares or units issued and outstanding that are used in calculating diluted EPS or earnings per unit (EPU), determined based on the timing of issuance of shares or units in the period.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 16 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-16~~

~~+ Details~~
~~Name:us-gaap_WeightedAverageNumberOfDilutedSharesOutstanding Namespace Prefix:us-gaap_ Data Type:xbrli:sharesItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Number of [basic] shares or units, after adjustment for contingently issuable shares or units and other shares or units not deemed outstanding, determined by relating the portion of time within a reporting period that common shares or units have been outstanding to the total time in that period.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-10~~

~~+ Details~~
~~Name:us-gaap_WeightedAverageNumberOfSharesOutstandingBasic Namespace Prefix:us-gaap_ Data Type:xbrli:sharesItemType Balance Type:na Period Type:duration~~

~~- References~~

~~No definition available.~~

~~+ Details~~
~~Name:us-gaap_WeightedAverageNumberOfSharesOutstandingDilutedDisclosureItemsAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration XML 56 R3.htm IDEA: XBRL DOCUMENT~~
~~CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE (LOSS) / INCOME (UNAUDITED) - USD ($) $ in Millions3 Months Ended6 Months Ended~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Statement of Comprehensive Income [Abstract]   Net (loss) / income$ (0.5)$ 4.7$ 2.2$ 5.2Other comprehensive (loss) / income   Net change in foreign currency translation adjustment, net of tax(0.2)3.4(2.0)6.8Pension and post-retirement actuarial gains, net of $0.1, $0.1, $0.2 and $5.0 tax, respectively0.10.20.47.0Other comprehensive (loss) /~~

~~income, net of tax(0.1)3.6(1.6)13.8Total comprehensive (loss) / income$ (0.6)$ 8.3$ 0.6$ 19.0~~

~~- Definition~~

~~Amount after tax of increase (decrease) in equity from transactions and other events and circumstances from net income and other comprehensive income, attributable to parent entity. Excludes changes in equity resulting from investments by owners and distributions to owners.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(24)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(26)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 220 -SubTopic 10 -Section 45 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-5~~

~~+ Details~~

~~Name:us-gaap_ComprehensiveIncomeNetOfTax Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Definition~~

~~The portion of profit or loss for the period, net of income taxes, which is attributable to the parent.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards~~

~~***Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 17: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-10Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479105/946-220-45-7Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 31: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 32: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 34: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 37: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1***~~

~~+ Details~~

~~Name:us-gaap_NetIncomeLoss Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Definition~~

~~Amount, after tax and reclassification adjustment, of (increase) decrease in accumulated other comprehensive income for defined benefit plan, attributable to parent.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (j) -SubTopic 10 -Topic 220 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10AReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (k) -SubTopic 10 -Topic 220 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10AReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 19 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-19Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-11Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph (c)(3) -SubTopic 10 -Topic 810 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-1AReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10A~~

~~+ Details~~
~~Name:us-gaap_OtherComprehensiveIncomeDefinedBenefitPlansAdjustmentNetOfTaxPortionAttributableToParent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Amount after tax and reclassification adjustments of gain (loss) on foreign currency translation adjustments, foreign currency transactions designated and effective as economic hedges of a net investment in a foreign entity and intra-entity foreign currency transactions that are of a long-term-investment nature, attributable to parent entity.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 19 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-19Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 20 -SubTopic 10 -Topic 810 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-20Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph (c)(3) -SubTopic 10 -Topic 810 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-1A~~

~~+ Details~~
~~Name:us-gaap_OtherComprehensiveIncomeForeignCurrencyTransactionAndTranslationAdjustmentNetOfTaxPortionAttributableToParent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- References~~

~~No definition available.~~

~~+ Details~~
~~Name:us-gaap_OtherComprehensiveIncomeLossNetOfTaxPeriodIncreaseDecreaseAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Amount after tax of other comprehensive income (loss) attributable to parent entity.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 19 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-19Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 20 -SubTopic 10 -Topic 810 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-20Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph (c)(3) -SubTopic 10 -Topic 810 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-1AReference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1A~~

~~+ Details~~

~~Name:us-gaap_OtherComprehensiveIncomeLossNetOfTaxPortionAttributableToParent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_StatementOfIncomeAndComprehensiveIncomeAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration XML 57 R4.htm IDEA: XBRL DOCUMENT~~

~~CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE (LOSS) / INCOME (UNAUDITED) (Parenthetical) - USD ($) $ in Millions3 Months Ended6 Months Ended~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Statement of Comprehensive Income [Abstract]   Tax on other comprehensive income$ 0.1$ 0.1$ 0.2$ 5.0~~
~~- Definition~~

~~Amount, after reclassification adjustment, of tax (expense) benefit for (increase) decrease in accumulated other comprehensive income of defined benefit plan.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (j) -SubTopic 10 -Topic 220 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10AReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (k) -SubTopic 10 -Topic 220 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10AReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 12 -SubTopic 10 -Topic 220 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-12Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 19 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-19Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10A~~

~~+ Details~~

~~Name:us-gaap_OtherComprehensiveIncomeLossPensionAndOtherPostretirementBenefitPlansTax Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type: credit Period Type:duration~~

~~- References~~

~~No definition available.~~

~~+ Details~~
~~Name:us-gaap_StatementOfIncomeAndComprehensiveIncomeAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration XML 58 R5.htm IDEA: XBRL DOCUMENT~~
~~CONDENSED CONSOLIDATED BALANCE SHEETS (UNAUDITED) - USD ($) $ in MillionsJun. 30, 2024Dec. 31, 2023Current assets Cash and cash equivalents$ 4.3$ 2.3 Restricted cash0.30.3Accounts and other receivables, net of allowances of $0.6 and $0.7, respectively60.959.9Inventories88.295.9Current assets held-for-sale23.48.9Other current assets1.51.5Total current assets178.6168.8Non-current assets Property, plant and equipment, net63.163.8Right-of-use assets from operating leases14.315.4Goodwill 67.267.5Intangibles, net11.612.0Deferred tax assets3.53.9Investments and loans to joint ventures and other affiliates0.40.4Pensions and other retirement benefits41.140.3 Total assets379.8372.1Current liabilities Current maturities of long-term debt and short-term borrowing0.24.6Accounts payable27.526.5Accrued liabilities23.220.9Taxes on income5.10.0Current liabilities held-for-sale9.43.9Other current liabilities9.48.9Total current liabilities74.864.8Non-current liabilities Long-term debt74.067.6Pensions and other retirement benefits0.00.1Deferred tax liabilities10.210.2Other non-current liabilities14.516.8Total liabilities173.5159.5Commitments and contingencies (Note 16) Shareholders' equity Ordinary shares of £0.50 par value; authorized 40,000,000 shares for 2024 and 2023; issued and outstanding 28,944,000 for 2024 and 202326.526.5 Additional paid-in capital224.2223.5Treasury shares(23.6)(22.9)Company shares held by ESOP(0.8)(0.9)Retained earnings99.5104.3Accumulated other comprehensive loss (119.5)(117.9)Total shareholders' equity206.3212.6Total liabilities and shareholders' equity$ 379.8$ 372.1~~
~~- Definition~~

~~Carrying value as of the balance sheet date of liabilities incurred (and for which invoices have typically been received) and payable to vendors for goods and services received that are used in an entity's business. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer).~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10~~

~~+ Details~~
~~Name:us-gaap_AccountsPayableCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- Definition~~

~~Carrying value as of the balance sheet date of obligations incurred and payable, pertaining to costs that are statutory in nature, are incurred on contractual obligations, or accumulate over time and for which invoices have not yet been received or will not be rendered. Examples include taxes, interest, rent and utilities. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer).~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1~~

~~+ Details~~
~~Name:us-gaap_AccruedLiabilitiesCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- Definition~~

~~Amount, after tax, of accumulated increase (decrease) in equity from transaction and other event and circumstance from nonowner source.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 220 -SubTopic 10 -Section 45 -Paragraph 14A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-14AReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-11Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (h)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)(a)(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(23)(a)(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 220 -SubTopic 10 -Section 45 -Paragraph 14 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-14~~

~~***+ Details***~~
~~***Name:us-gaap_AccumulatedOtherComprehensiveIncomeLossNetOfTax Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type: instant***~~

~~***- Definition***~~

~~***Amount of excess of issue price over par or stated value of stock and from other transaction involving stock or stockholder. Includes, but is not limited to, additional paid-in capital (APIC) for common and preferred stock.***~~

~~***+ References***~~

~~***Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)(a)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1***~~

~~***+ Details***~~
~~***Name:us-gaap_AdditionalPaidInCapital Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant***~~

~~***- Definition***~~

~~***Amount of asset recognized for present right to economic benefit.***~~

~~***+ References***~~

~~***Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 5: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-25Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 11:***~~

~~***http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 12: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 13: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(12)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 18: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 19: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7Reference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 30: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(11)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1***~~

~~+ Details~~

~~Name:us-gaap_Assets Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- Definition~~

~~Amount of asset recognized for present right to economic benefit, classified as current.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-25Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 5:~~

~~***http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 6: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 10: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 20: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7***~~

~~+ Details~~

~~Name:us-gaap_AssetsCurrent~~ ~~Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_AssetsCurrentAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_AssetsNoncurrentAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Amount classified as assets attributable to disposal group held for sale or disposed of, expected to be disposed of within one year or the normal operating cycle, if longer.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-9Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11~~

~~+ Details~~

~~Name:us-gaap_AssetsOfDisposalGroupIncludingDiscontinuedOperationCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- Definition~~

~~Amount of currency on hand as well as demand deposits with banks or financial institutions. Includes other kinds of accounts that have the general characteristics of demand deposits. Also includes short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. Excludes cash and cash equivalents within disposal group and discontinued operation.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-4~~

~~***+ Details***~~

~~***Name:us-gaap_CashAndCashEquivalentsAtCarryingValue Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant***~~

~~***- Definition***~~

~~***Represents the caption on the face of the balance sheet to indicate that the entity has entered into (1) purchase or supply arrangements that will require expending a portion of its resources to meet the terms thereof, and (2) is exposed to potential losses or, less frequently, gains, arising from (a) possible claims against a company's resources due to future performance under contract terms, and (b) possible losses or likely gains from uncertainties that will ultimately be resolved when one or more future events that are deemed likely to occur do occur or fail to occur.***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(17)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(15)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1***~~

~~***+ Details***~~

~~***Name:us-gaap_CommitmentsAndContingencies Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant***~~

~~***- Definition***~~

~~***Aggregate par or stated value of issued nonredeemable common stock (or common stock redeemable solely at the option of the issuer). This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable common shares, par value and other disclosure concepts are in another section within stockholders' equity.***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1***~~

~~***+ Details***~~
~~***Name:us-gaap_CommonStockValue Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant***~~

~~***- Definition***~~

~~***Amount of debt and lease obligation, classified as current.***~~

~~***+ References***~~

~~***Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(21)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1***~~

~~***+ Details***~~
~~***Name:us-gaap_DebtCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant***~~

~~***- Definition***~~

~~***Amount, after allocation of valuation allowances and deferred tax liability, of deferred tax asset attributable to deductible differences and carryforwards, with jurisdictional netting.***~~

~~***+ References***~~

~~***Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482525/740-10-45-4Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482525/740-10-45-6***~~

~~***+ Details***~~
~~***Name:us-gaap_DeferredIncomeTaxAssetsNet Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant***~~

~~***- Definition***~~

~~***Amount, after deferred tax asset, of deferred tax liability attributable to taxable differences with jurisdictional netting.***~~

~~***+ References***~~

~~***Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(15)(b)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482525/740-10-45-4Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482525/740-10-45-6***~~

~~***+ Details***~~
~~***Name:us-gaap_DeferredIncomeTaxLiabilitiesNet Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant***~~

~~***- Definition***~~

~~***Amount of asset, recognized in statement of financial position, for overfunded defined benefit pension and other postretirement plans.***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(10)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 17 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480482/715-20-55-17Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(10)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(7)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480535/715-20-45-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480535/715-20-45-3Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480506/715-20-50-1***~~

~~***+ Details***~~
~~***Name:us-gaap_DefinedBenefitPlanAssetsForPlanBenefitsNoncurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant***~~

~~***- References***~~

~~***No definition available.***~~

~~***+ Details***~~
~~***Name:us-gaap_EquityAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration***~~

~~***- Definition***~~

~~***Amount, after accumulated impairment loss, of asset representing future economic benefit arising from other asset acquired in business combination or from joint venture formation or both, that is not individually identified and separately recognized.***~~

~~***+ References***~~

~~***Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482548/350-20-55-24Reference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(15)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482598/350-20-45-1Reference 7: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(10)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1***~~

~~***+ Details***~~

~~***Name:us-gaap_Goodwill Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant***~~

~~***- Definition***~~

~~***Sum of the carrying amounts of all intangible assets, excluding goodwill, as of the balance sheet date, net of accumulated amortization and impairment charges.***~~

~~***+ References***~~

~~***Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482686/350-30-45-1***~~

~~***+ Details***~~

~~***Name:us-gaap_IntangibleAssetsNetExcludingGoodwill Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant***~~

~~***- Definition***~~

~~***Amount after valuation and LIFO reserves of inventory expected to be sold, or consumed within one year or operating cycle, if longer.***~~

~~***+ References***~~

~~***Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1***~~

~~***+ Details***~~

~~***Name:us-gaap_InventoryNet Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant***~~

~~***- Definition***~~

~~***Amount of investment in equity method investee and investment in and advance to affiliate.***~~

~~***+ References***~~

~~***Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1***~~

~~***+ Details***~~

~~***Name:us-gaap_InvestmentsInAffiliatesSubsidiariesAssociatesAndJointVentures Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant***~~

~~***- Definition***~~

~~***Amount of liability recognized for present obligation requiring transfer or otherwise providing economic benefit to others.***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(24)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(26)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(21)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-25Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 15: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(14)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 18: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10***~~

~~***-Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 27: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7Reference 28: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7Reference 29: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30***~~

~~*+ Details*~~

~~*Name:us-gaap_Liabilities Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant*~~

~~*- Definition*~~

~~*Amount of liabilities and equity items, including the portion of equity attributable to noncontrolling interests, if any.*~~

~~*+ References*~~

~~*Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(32)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1*~~

~~***+ Details***~~

~~***Name:us-gaap_LiabilitiesAndStockholdersEquity Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant***~~

~~***- Definition***~~

~~***Total obligations incurred as part of normal operations that are expected to be paid during the following twelve months or within one business cycle, if longer.***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(21)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-25Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 8: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-5Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 20: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7Reference 21: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7***~~

~~+ Details~~

~~Name:us-gaap_LiabilitiesCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_LiabilitiesCurrentAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_LiabilitiesNoncurrentAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Amount classified as liabilities attributable to disposal group held for sale or disposed of, expected to be disposed of within one year or the normal operating cycle, if longer.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-9Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11~~

~~+ Details~~

~~Name:us-gaap_LiabilitiesOfDisposalGroupIncludingDiscontinuedOperationCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- Definition~~

~~Amount, after deduction of unamortized premium (discount) and debt issuance cost, of long-term debt classified as noncurrent. Excludes lease obligation.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1~~

~~+ Details~~

~~Name:us-gaap_LongTermDebtNoncurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- Definition~~

~~Amount of lessee's right to use underlying asset under operating lease.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1~~

~~+ Details~~

~~Name:us-gaap_OperatingLeaseRightOfUseAsset Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- Definition~~

~~Amount of current assets classified as other.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1~~

~~+ Details~~

~~Name:us-gaap_OtherAssetsCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- Definition~~

~~Amount of liabilities classified as other, due within one year or the normal operating cycle, if longer.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10~~

~~+ Details~~

~~Name:us-gaap_OtherLiabilitiesCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- Definition~~

~~Amount of liabilities classified as other, due after one year or the normal operating cycle, if longer.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(24)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1~~

~~+ Details~~

~~Name:us-gaap_OtherLiabilitiesNoncurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- Definition~~

~~Amount of liability, recognized in statement of financial position, for defined benefit pension and other postretirement plans, classified as noncurrent.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(24)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 17 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480482/715-20-55-17Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480535/715-20-45-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480535/715-20-45-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480506/715-20-50-1~~

~~*+ Details*~~

~~*Name:us-gaap_PensionAndOtherPostretirementDefinedBenefitPlansLiabilitiesNoncurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant*~~

~~*- Definition*~~

~~*Amount after accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business to produce goods and services and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures.*~~

~~*+ References*~~

~~*Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-7AReference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 360 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478451/942-360-50-1*~~

~~*+ Details*~~

~~*Name:us-gaap_PropertyPlantAndEquipmentNet Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant*~~

~~*- Definition*~~

~~*The total amount due to the entity within one year of the balance sheet date (or one operating cycle, if longer) from outside sources, including trade accounts receivable, notes and loans receivable, as well as any other types of receivables, net of allowances established for the purpose of reducing such receivables to an amount that approximates their net realizable value.*~~

~~*+ References*~~

~~*Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10*~~

~~*+ Details*~~

~~*Name:us-gaap_ReceivablesNetCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant*~~

~~***- Definition***~~

~~***Amount of cash restricted as to withdrawal or usage, classified as current. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits.***~~

~~***+ References***~~

~~***Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-8***~~

~~***+ Details***~~

~~***Name:us-gaap_RestrictedCashCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant***~~

~~***- Definition***~~

~~***Amount of accumulated undistributed earnings (deficit).***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)(a)(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (h)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480990/946-20-50-11Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(23)(a)(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(17)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1***~~

~~***+ Details***~~

~~***Name:us-gaap_RetainedEarningsAccumulatedDeficit Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant***~~

~~***- Definition***~~

~~***Amount of equity (deficit) attributable to parent. Excludes temporary equity and equity attributable to noncontrolling interest.***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(31)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 12: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 13: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 14: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 4.E) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480418/310-10-S99-2***~~

~~***+ Details***~~

~~***Name:us-gaap_StockholdersEquity Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant***~~

~~***- Definition***~~

~~***Carrying value as of the balance sheet date of obligations incurred and payable for statutory income, sales, use, payroll, excise, real, property and other taxes. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer).***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1***~~

~~***+ Details***~~

~~***Name:us-gaap_TaxesPayableCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant***~~

~~***- Definition***~~

~~***The amount allocated to treasury stock. Treasury stock is common and preferred shares of an entity that were issued, repurchased by the entity, and are held in its treasury.***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 30 -Section 50 -Paragraph 4 -Publisher FASB -URI***~~

~~https://asc.fasb.org/1943274/2147481520/505-30-50-4Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 30 -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481549/505-30-45-1~~

~~+ Details~~

~~Name:us-gaap_TreasuryStockValue Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- Definition~~

~~Fair value of unearned shares for all classes of common stock and nonredeemable preferred stock (or preferred stock redeemable solely at the option of the issuer) held by an employee stock ownership plan (ESOP). Includes the sale of shares or the issuance treasury shares to an ESOP.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 40 -Section 50 -Paragraph 1 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480489/718-40-50-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 40 -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480520/718-40-45-2~~

~~+ Details~~

~~Name:us-gaap_UnearnedESOPShares Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant XML 59 R6.htm IDEA: XBRL DOCUMENT~~

~~CONDENSED CONSOLIDATED BALANCE SHEETS (UNAUDITED) (Parenthetical) $ in Millions~~	~~Jun. 30, 2024~~ ~~USD ($)~~ ~~shares~~	~~Dec. 31, 2023~~ ~~USD ($)~~ ~~shares~~
~~Statement of Financial Position [Abstract]~~		
~~Accounts and other receivables, net of allowance | $~~	~~$ 0.6~~	~~$ 0.7~~
~~Common stock, shares authorized (in shares)~~	~~40,000,000~~	~~40,000,000~~
~~Common stock, shares issued (in shares)~~	~~28,944,000~~	~~28,944,000~~
~~Common stock, shares outstanding (in shares)~~	~~28,944,000~~	~~28,944,000~~

~~- Definition~~

~~Amount of allowance for credit loss on accounts receivable, classified as current.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479344/326-20-45-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481962/310-10-50-4~~

~~+ Details~~

~~Name:us-gaap_AllowanceForDoubtfulAccountsReceivableCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- Definition~~

~~The maximum number of common shares permitted to be issued by an entity's charter and bylaws.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1~~

~~+ Details~~

~~Name:us-gaap_CommonStockSharesAuthorized Namespace Prefix:us-gaap_ Data Type:xbrli:sharesItemType Balance Type:na Period Type:instant~~

~~- Definition~~

~~Total number of common shares of an entity that have been sold or granted to shareholders (includes common shares that were issued, repurchased and remain in the treasury). These shares represent capital invested by the firm's shareholders and owners, and may be all or only a portion of the number of shares authorized. Shares issued include shares outstanding and shares held in the treasury.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1~~

~~+ Details~~

~~Name:us-gaap_CommonStockSharesIssued Namespace Prefix:us-gaap_ Data Type:xbrli:sharesItemType Balance Type:na Period Type:instant~~

~~- Definition~~

~~Number of shares of common stock outstanding. Common stock represent the ownership interest in a corporation.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3~~

~~+ Details~~

~~Name:us-gaap_CommonStockSharesOutstanding Namespace Prefix:us-gaap_ Data Type:xbrli:sharesItemType Balance Type:na Period Type:instant~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_StatementOfFinancialPositionAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration XML 60 R7.htm IDEA: XBRL DOCUMENT~~

~~CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS (UNAUDITED) - USD ($) $ in Millions 3 Months Ended6 Months Ended12 Months Ended~~

~~May 08, 2024~~
~~Feb. 07, 2024~~
~~Aug. 02, 2023~~
~~May 03, 2023~~
~~Feb. 01, 2023~~
~~Jun. 30, 2024~~
~~Mar. 31, 2024~~
~~Jul. 02, 2023~~
~~Apr. 02, 2023~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Dec. 31, 2023~~

~~Operating activities Net income $ (0.5)$ 2.7$ 4.7$ 0.5$ 2.2$ 5.2 Net loss from discontinued operations 0.1 0.2 0.20.2 Net income from continuing operations (0.4) 4.9 2.45.4 Adjustments to reconcile net income to net cash provided / (used) by operating activities Depreciation 4.56.2 Amortization of purchased intangible assets 0.40.4 Amortization of debt issuance costs 0.10.2 Share-based compensation charges 1.41.3 Deferred income taxes 0.31.5 Loss on held for sale asset group 7.50.0 Defined benefit pension (credit) / charge (0.5)8.3 Defined benefit pension contributions 0.0(2.1) Changes in assets and liabilities Accounts and other receivables (7.9)3.8 Inventories (7.5)(6.4) Current assets held-for-sale (2.5)1.2 Accounts payable 2.4(9.1) Accrued liabilities 3.5 (5.9) Current liabilities held-for-sale 2.0(1.5) Other current liabilities 5.8(7.4) Other non-current assets and liabilities 0.60.5 Net cash provided / (used) by operating activities - continuing 12.5(1.3) Net cash provided by operating activities - discontinued 0.10.1 Net cash provided / (used) by operating activities 12.6 (1.2) Investing activities Capital expenditures (4.1)(4.9) Net cash used by investing activities - continuing (4.1)(4.9) Net cash used by investing activities - discontinued (0.1)(0.1) Net cash used by investing activities (4.2)(5.0) Financing activities Net repayment of short-term borrowings (4.4)(25.0) Net drawdown of long-term borrowings 6.435.1 Repurchase of own shares (1.0)(1.6) Share-based compensation cash paid (0.3)(0.3) Dividends paid$ (3.5)$ (3.5) $ (3.5)$ (3.5)$ (3.5)(3.5) (7.0) (7.0)(7.0)$ (10.5)Net cash (used) / provided by financing activities (6.3)1.2 Effect of exchange rate changes on cash and cash equivalents (0.1)0.3 Net increase / (decrease) 2.0(4.7) Cash, cash equivalents and restricted cash; beginning of year $ 2.6 $ 12.92.612.912.9Cash, cash equivalents and restricted cash; end of the second quarter $ 4.6 $ 8.2 4.68.2$ 2.6Supplemental cash flow information: Interest payments 2.82.8 Income tax payments, net $ 0.3$ 2.8~~

~~- Definition~~

~~Increase (Decrease) in Other Current Assets Held For Sale~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:lxfr_IncreaseDecreaseInOtherCurrentAssetsHeldForSale Namespace Prefix:lxfr_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Definition~~

~~Increase (Decrease) in Other Current Liabilities Held For Sale~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:lxfr_IncreaseDecreaseInOtherCurrentLiabilitiesHeldForSale Namespace Prefix:lxfr_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Pension And Other Postretirement Benefits Contributions, Noncash~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:lxfr_PensionAndOtherPostretirementBenefitsContributionsNoncash Namespace Prefix:lxfr_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type: duration~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_AdjustmentsToReconcileNetIncomeLossToCashProvidedByUsedInOperatingActivitiesAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Amount of amortization expense attributable to debt issuance costs.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-3~~

~~+ Details~~

~~Name:us-gaap_AmortizationOfFinancingCosts Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~The aggregate expense charged against earnings to allocate the cost of intangible assets (nonphysical assets not used in production) in a systematic and rational manner to the periods expected to benefit from such assets. As a noncash expense, this element is added back to net income when calculating cash provided by or used in operations using the indirect method.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482686/350-30-45-2~~

~~+ Details~~

~~Name:us-gaap_AmortizationOfIntangibleAssets Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Amount of cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage. Excludes amount for disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-8Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-4~~

~~+ Details~~

~~Name:us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- Definition~~

~~Amount of increase (decrease) in cash, cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; including effect from exchange rate change. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 1 -SubTopic 230 -Topic 830 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477401/830-230-45-1~~

~~+ Details~~

~~Name:us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Amount of cash inflow (outflow) of investing activities of discontinued operations. Investing activity cash flows include making and collecting loans and acquiring and disposing of debt or equity instruments and property, plant, and equipment and other productive assets.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (c)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5B~~

~~+ Details~~

~~Name:us-gaap_CashProvidedByUsedInInvestingActivitiesDiscontinuedOperations Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Amount of cash inflow (outflow) of operating activities of discontinued operations. Operating activity cash flows include transactions, adjustments, and changes in value not defined as investing or financing activities.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (c)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5B~~

~~+ Details~~

~~Name:us-gaap_CashProvidedByUsedInOperatingActivitiesDiscontinuedOperations Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Amount of deferred income tax expense (benefit) and income tax credits.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28~~

~~+ Details~~

~~Name:us-gaap_DeferredIncomeTaxesAndTaxCredits Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~The amount of expense recognized in the current period that reflects the allocation of the cost of tangible assets over the assets' useful lives. Includes production and non-production related depreciation.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 360 -SubTopic 10 -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1~~

~~+ Details~~

~~Name:us-gaap_Depreciation Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Amount, before tax, of (gain) loss recognized for the (reversal of write-down) write-down to fair value, less cost to sell, of a disposal group. Excludes discontinued operations.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 5 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-5Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3~~

~~+ Details~~

~~Name:us-gaap_DisposalGroupNotDiscontinuedOperationLossGainOnWriteDown Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Amount of increase (decrease) from effect of exchange rate changes on cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; held in foreign currencies. Excludes amounts for disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 230 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477401/830-230-45-1~~

~~+ Details~~

~~Name:us-gaap_EffectOfExchangeRateOnCashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Amount after tax of income (loss) from continuing operations attributable to the parent.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(13)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 10: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 11: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 810 -SubTopic 10 -Section 45 -Paragraph 18 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-18~~

~~*+ Details*~~

~~*Name:us-gaap_IncomeLossFromContinuingOperations Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration*~~

~~*- Definition*~~

~~*Amount after tax of income (loss) from a discontinued operation attributable to the parent. Includes, but is not limited to, the income (loss) from operations during the phase-out period, gain (loss) on disposal, gain (loss) for reversal of write-down (write-down) to fair value, less cost to sell, and adjustments to a prior period gain (loss) on disposal.*~~

~~*+ References*~~

~~*Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 19 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-19Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3A -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3AReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3B -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3BReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-4Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-1Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3*~~

~~***+ Details***~~

~~***Name:us-gaap_IncomeLossFromDiscontinuedOperationsNetOfTaxAttributableToReportingEntity Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type: credit Period Type:duration***~~

~~***- Definition***~~

~~***Amount, before refund, of cash paid to foreign, federal, state, and local jurisdictions as income tax.***~~

~~***+ References***~~

~~***Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-2AReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 23 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-23Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-22Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-25Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-2***~~

~~***+ Details***~~

~~***Name:us-gaap_IncomeTaxesPaid Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration***~~

~~***- Definition***~~

~~***The increase (decrease) during the reporting period in the aggregate amount of liabilities incurred (and for which invoices have typically been received) and payable to vendors for goods and services received that are used in an entity's business.***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28***~~

~~***+ Details***~~

~~***Name:us-gaap_IncreaseDecreaseInAccountsPayable Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration***~~

~~***- Definition***~~

~~***The increase (decrease) during the reporting period in the aggregate amount of expenses incurred but not yet paid.***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28***~~

~~+ Details~~
~~Name:us-gaap_IncreaseDecreaseInAccruedLiabilities Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~The increase (decrease) during the reporting period in the aggregate value of all inventory held by the reporting entity, associated with underlying transactions that are classified as operating activities.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28~~

~~+ Details~~
~~Name:us-gaap_IncreaseDecreaseInInventories Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- References~~

~~No definition available.~~

~~+ Details~~
~~Name:us-gaap_IncreaseDecreaseInOperatingCapitalAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Amount of increase (decrease) in current liabilities classified as other.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28~~

~~+ Details~~
~~Name:us-gaap_IncreaseDecreaseInOtherCurrentLiabilities Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Amount of increase (decrease) in noncurrent operating assets after deduction of noncurrent operating liabilities classified as other.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:us-gaap_IncreaseDecreaseInOtherNoncurrentAssetsAndLiabilitiesNet Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type: duration~~

~~- Definition~~

~~The increase (decrease) during the reporting period in the total amount due within one year (or one operating cycle) from all parties, associated with underlying transactions that are classified as operating activities.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28~~

~~+ Details~~
~~Name:us-gaap_IncreaseDecreaseInReceivables Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Definition~~

~~Amount of cash paid for interest, excluding capitalized interest, classified as operating activity. Includes, but is not limited to, payment to settle zero-coupon bond for accreted interest of debt discount and debt instrument with insignificant coupon interest rate in relation to effective interest rate of borrowing attributable to accreted interest of debt discount.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 17 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-17Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-25Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-2~~

~~+ Details~~

~~Name:us-gaap_InterestPaidNet Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Definition~~

~~Amount of cash inflow (outflow) from financing activities, including discontinued operations. Financing activity cash flows include obtaining resources from owners and providing them with a return on, and a return of, their investment; borrowing money and repaying amounts borrowed, or settling the obligation; and obtaining and paying for other resources obtained from creditors on long-term credit.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24~~

~~+ Details~~

~~Name:us-gaap_NetCashProvidedByUsedInFinancingActivities Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_NetCashProvidedByUsedInFinancingActivitiesAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Amount of cash inflow (outflow) from investing activities, including discontinued operations. Investing activity cash flows include making and collecting loans and acquiring and disposing of debt or equity instruments and property, plant, and equipment and other productive assets.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24~~

~~+ Details~~

~~Name:us-gaap_NetCashProvidedByUsedInInvestingActivities Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_NetCashProvidedByUsedInInvestingActivitiesAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Amount of cash inflow (outflow) of investing activities, excluding discontinued operations. Investing activity cash flows include making and collecting loans and acquiring and disposing of debt or equity instruments and property, plant, and equipment and other productive assets.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24~~

~~+ Details~~

~~Name:us-gaap_NetCashProvidedByUsedInInvestingActivitiesContinuingOperations Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Amount of cash inflow (outflow) from operating activities, including discontinued operations. Operating activity cash flows include transactions, adjustments, and changes in value not defined as investing or financing activities.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-25~~

~~+ Details~~

~~Name:us-gaap_NetCashProvidedByUsedInOperatingActivities Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:na Period Type:duration~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_NetCashProvidedByUsedInOperatingActivitiesAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Amount of cash inflow (outflow) from operating activities, excluding discontinued operations. Operating activity cash flows include transactions, adjustments, and changes in value not defined as investing or financing activities.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-25~~

~~+ Details~~

~~Name:us-gaap_NetCashProvidedByUsedInOperatingActivitiesContinuingOperations Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~The portion of profit or loss for the period, net of income taxes, which is attributable to the parent.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 17: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-10Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479105/946-220-45-7Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph~~

(SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 31: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 32: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 34: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 37: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1

~~+ Details~~
~~Name:us-gaap_NetIncomeLoss Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Definition~~

~~The cash outflow to reacquire common stock during the period.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15~~

~~+ Details~~
~~Name:us-gaap_PaymentsForRepurchaseOfCommonStock Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Definition~~

~~Cash outflow in the form of capital distributions and dividends to common shareholders, preferred shareholders and noncontrolling interests.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15~~

~~+ Details~~
~~Name:us-gaap_PaymentsOfDividends Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Definition~~

~~Amount of cash outflow to satisfy grantee's tax withholding obligation for award under share-based payment arrangement.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15~~

~~+ Details~~
~~Name:us-gaap_PaymentsRelatedToTaxWithholdingForShareBasedCompensation Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Definition~~

~~The cash outflow associated with the acquisition of long-lived, physical assets that are used in the normal conduct of business to produce goods and services and not intended for resale; includes cash outflows to pay for construction of self-constructed assets.~~

~~*+ References*~~

~~*Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 13 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-13*~~

~~*+ Details*~~
~~*Name:us-gaap_PaymentsToAcquirePropertyPlantAndEquipment Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration*~~

~~*- Definition*~~

~~*Amount of noncash expense (reversal of expense) for pension and other postretirement benefits.*~~

~~*+ References*~~

~~*Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28*~~

~~*+ Details*~~
~~*Name:us-gaap_PensionAndOtherPostretirementBenefitsExpenseReversalOfExpenseNoncash Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration*~~

~~*- Definition*~~

~~*Amount of cash inflow (outflow) from long-term debt, finance lease obligation, and mandatorily redeemable capital security.*~~

~~*+ References*~~

~~*Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 14 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-14Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 14 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-14*~~

~~*+ Details*~~
~~*Name:us-gaap_ProceedsFromRepaymentsOfLongTermDebtAndCapitalSecurities Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration*~~

~~*- Definition*~~

~~*The net cash inflow or outflow for borrowing having initial term of repayment within one year or the normal operating cycle, if longer.*~~

~~*+ References*~~

~~*No definition available.*~~

~~*+ Details*~~
~~*Name:us-gaap_ProceedsFromRepaymentsOfShortTermDebt Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration*~~

~~*- Definition*~~

~~*Amount of noncash expense for share-based payment arrangement.*~~

~~*+ References*~~

~~*Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28*~~

~~*+ Details*~~
~~*Name:us-gaap_ShareBasedCompensation Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration*~~

~~*- References*~~

~~*No definition available.*~~

~~*+ Details*~~
~~*Name:us-gaap_SupplementalCashFlowInformationAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration XML 61 R8.htm*~~
~~*IDEA: XBRL DOCUMENT*~~

~~*CONDENSED CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY (UNAUDITED) - USD ($) shares in Millions, $ in Millions*~~	~~*Total*~~	~~*Additional paid-in capital*~~	~~*Treasury shares*~~	~~*Own shares held by ESOP*~~	~~*Retained earnings*~~	~~*Accumulated other comprehensive loss*~~	~~*Ordinary shares Common stock*~~

~~Beginning balance at Dec. 31, 2022$ 207.3$ 221.4$ (20.4)$ (1.0)$ 120.2$ (139.4)$ 26.5Beginning balance (in shares) at Dec. 31, 2022 (1.3)(0.7) Increase (Decrease) in Stockholders' Equity [Roll Forward] Net (loss) / income0.5 0.5 Other comprehensive loss, net of tax10.2 10.2 Dividends declared(3.5) (3.5) Share-based compensation0.60.6 Share buyback (in shares) (0.1) Share buyback(0.8) $ (0.8) Utilization of treasury shares to satisfy share based compensation(0.3)(0.3) Ending balance at Apr. 02, 2023214.0221.7$ (21.2)$ (1.0)117.2(129.2)26.5Ending balance (in shares) at Apr. 02, 2023 (1.4)(0.7) Beginning balance at Dec. 31, 2022207.3221.4 $ (20.4)$ (1.0)120.2(139.4)26.5Beginning balance (in shares) at Dec. 31, 2022 (1.3)(0.7) Increase (Decrease) in Stockholders' Equity [Roll Forward] Net (loss) / income 5.2 Other comprehensive loss, net of tax13.8 Ending balance at Jul. 02, 2023215.2222.1$ (21.8)$ (0.9)114.9(125.6)26.5Ending balance (in shares) at Jul. 02, 2023 (1.4)(0.6) Beginning balance at Apr. 02, 2023214.0221.7$ (21.2)$ (1.0)117.2(129.2)26.5Beginning balance (in shares) at Apr. 02, 2023 (1.4)(0.7) Increase (Decrease) in Stockholders' Equity [Roll Forward] Net (loss) / income4.7 4.7 Other comprehensive loss, net of tax3.6 3.6 Dividends declared(7.0) (7.0) Share-based compensation 0.70.7 Share buyback(0.8) $ (0.8) Utilization of treasury shares to satisfy share based compensation(0.1)(0.3)0.2 Utilization of shares from ESOP to satisfy share based compensation (in shares) 0.1 Utilization of treasury shares to satisfy share based compensation0.1 $ 0.1 Ending balance at Jul. 02, 2023215.2222.1$ (21.8)$ (0.9)114.9 (125.6)26.5Ending balance (in shares) at Jul. 02, 2023 (1.4)(0.6) Beginning balance at Dec. 31, 2023212.6223.5$ (22.9)$ (0.9)104.3(117.9)26.5Beginning balance (in shares) at Dec. 31, 2023 (1.5)(0.6) Increase (Decrease) in Stockholders' Equity [Roll Forward] Net (loss) / income2.7 2.7 Other comprehensive loss, net of tax(1.5) (1.5) Dividends declared(3.5) (3.5) Share-based compensation0.60.6 Share buyback(0.4) $ (0.4) Utilization of shares from ESOP to satisfy share based compensation (in shares) 0.0 Utilization of treasury shares to satisfy share based compensation(0.2)(0.2) $ 0.0 Ending balance at Mar. 31, 2024210.3223.9$ (23.3)$ (0.9)103.5(119.4)26.5 Ending balance (in shares) at Mar. 31, 2024 (1.5)(0.6) Beginning balance at Dec. 31, 2023212.6223.5$ (22.9)$ (0.9)104.3(117.9)26.5Beginning balance (in shares) at Dec. 31, 2023 (1.5)(0.6) Increase (Decrease) in Stockholders' Equity [Roll Forward] Net (loss) / income2.2 Other comprehensive loss, net of tax(1.6) Ending balance at Jun. 30, 2024206.3224.2$ (23.6)$ (0.8)99.5(119.5)26.5Ending balance (in shares) at Jun. 30, 2024 (1.6)(0.6) Beginning balance at Mar. 31, 2024210.3223.9$ (23.3)$ (0.9) 103.5(119.4)26.5Beginning balance (in shares) at Mar. 31, 2024 (1.5)(0.6) Increase (Decrease) in Stockholders' Equity [Roll Forward] Net (loss) / income(0.5) (0.5) Other comprehensive loss, net of tax(0.1) (0.1) Dividends declared(3.5) (3.5) Share-based compensation0.80.8 Share buyback (in shares) (0.1) Share buyback(0.6) $ (0.6) Utilization of treasury shares to satisfy share based compensation0.0(0.3)0.3 Utilization of shares from ESOP to satisfy share based compensation (in shares) 0.0 Utilization of treasury shares to satisfy share based compensation(0.1)(0.2) $ 0.1 Ending balance at Jun. 30, 2024$ 206.3$ 224.2$ (23.6)$ (0.8)$ 99.5$ (119.5)$ 26.5Ending balance (in shares) at Jun. 30, 2024 (1.6)(0.6)~~

~~- Definition~~

~~Stock Issued During Period, Shares, Shares From Employee Stock Ownership Plan To Satisfy Share Based Compensation~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:lxfr_StockIssuedDuringPeriodSharesSharesFromEmployeeStockOwnershipPlanToSatisfyShareBasedCompensation Namespace Prefix:lxfr_ Data Type:xbrli:sharesItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Stock Issued During Period, Value, Shares From Employee Stock Ownership Plan To Satisfy Share Based Compensation~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:lxfr_StockIssuedDuringPeriodValueSharesFromEmployeeStockOwnershipPlanToSatisfyShareBasedCompensation Namespace Prefix:lxfr_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Definition~~

~~Stock Issued During Period, Value, Treasury Stock Reissued To Satisfy Share Based Compensation~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:lxfr_StockIssuedDuringPeriodValueTreasuryStockReissuedToSatisfyShareBasedCompensation Namespace Prefix:lxfr_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Definition~~

~~Amount of increase to additional paid-in capital (APIC) for recognition of cost for award under share-based payment arrangement.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 35 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480483/718-10-35-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 20 -Section 55 -Paragraph 13 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481089/718-20-55-13Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 20 -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481089/718-20-55-12~~

~~+ Details~~

~~Name:us-gaap_AdjustmentsToAdditionalPaidInCapitalSharebasedCompensationRequisiteServicePeriodRecognitionValue Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Definition~~

~~Amount of paid and unpaid common stock dividends declared with the form of settlement in cash, stock and payment-in-kind (PIK).~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 2 -SubTopic 405 -Topic 942 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477787/942-405-45-2~~

~~+ Details~~

~~Name:us-gaap_DividendsCommonStock Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~A roll forward is a reconciliation of a concept from the beginning of a period to the end of a period.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_IncreaseDecreaseInStockholdersEquityRollForward Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~The portion of profit or loss for the period, net of income taxes, which is attributable to the parent.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 17: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-10Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479105/946-220-45-7Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 31: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 32: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 34: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 37: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1~~

~~+ Details~~

~~Name:us-gaap_NetIncomeLoss Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Definition~~

~~Amount after tax of other comprehensive income (loss) attributable to parent entity.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 19 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-19Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 20 -SubTopic 10 -Topic 810 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-20Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph (c)(3) -SubTopic 10 -Topic 810 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-1AReference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1A~~

~~+ Details~~

~~Name:us-gaap_OtherComprehensiveIncomeLossNetOfTaxPortionAttributableToParent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Definition~~

~~Number of shares issued which are neither cancelled nor held in the treasury.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_SharesOutstanding Namespace Prefix:us-gaap_ Data Type:xbrli:sharesItemType Balance Type:na Period Type:instant~~

~~- Definition~~

~~Number of shares that have been repurchased during the period and have not been retired and are not held in treasury. Some state laws may govern the circumstances under which an entity may acquire its own stock and prescribe the accounting treatment therefore. This element is used when state law does not recognize treasury stock.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 505 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478448/946-505-50-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1~~

~~***+ Details***~~

~~***Name:us-gaap_StockRepurchasedDuringPeriodShares Namespace Prefix:us-gaap_ Data Type:xbrli:sharesItemType Balance Type:na Period Type:duration***~~

~~***- Definition***~~

~~***Amount of equity (deficit) attributable to parent. Excludes temporary equity and equity attributable to noncontrolling interest.***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(31)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 12: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 13: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 14: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 4.E) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480418/310-10-S99-2***~~

~~+ Details~~

~~Name:us-gaap_StockholdersEquity~~ ***~~Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~***

~~- Definition~~

~~Equity impact of the cost of common and preferred stock that were repurchased during the period. Recorded using the cost method.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 30 -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481549/505-30-45-1~~

~~+ Details~~

~~Name:us-gaap_TreasuryStockValueAcquiredCostMethod Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration XML 62 R9.htm IDEA: XBRL DOCUMENT~~

~~Basis of Presentation and Responsibility for interim Financial Statements~~ ~~6 Months Ended~~
~~Jun. 30, 2024~~

~~Organization, Consolidation and Presentation of Financial Statements [Abstract]~~ ~~Basis of presentation and responsibility for interim financial statements~~

~~Basis of Presentation and Responsibility for interim Financial Statements~~

~~We prepared the accompanying unaudited condensed consolidated financial statements of Luxfer Holdings PLC and all wholly-owned, majority owned or otherwise controlled subsidiaries on the same basis as our annual audited financial statements. We condensed or omitted certain information and footnote disclosures normally included in our annual audited financial statements, which we prepared in accordance with U.S. Generally Accepted Accounting Principles (GAAP).~~

~~Our quarterly financial statements should be read in conjunction with our Annual Report on Form 10-K for the year ended December 31, 2023. As used in this report, the terms "we," "us," "our," "Luxfer" and "the Company" mean Luxfer Holdings PLC and its subsidiaries, unless the context indicates another meaning.~~

~~In the opinion of management, our financial statements reflect all adjustments, which are only of a normal recurring nature, necessary for the fair statement of financial statements for interim periods in accordance with U.S. GAAP and with the instructions to Form 10-Q in Article 10 of Securities and Exchange Commission (SEC) Regulation S-X.~~

~~The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions about future events that affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities at the date of our financial statements and the reported amounts of revenue and expenses during the reporting periods. Actual results could differ from those estimates, and any such differences may be material to our financial statements.~~

~~Our fiscal year ends on December 31. We report our interim quarterly periods on a 13-week quarter basis, ending on a Sunday. The Second Quarter 2024, ended on June 30, 2024, and the Second Quarter 2023, ended on July 2, 2023.~~

~~**Accounting standards issued but not yet effective**~~

~~In November 2023, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") 2023-07, Segment Reporting (Topic 280): Improvements to Reportable Segment Disclosures, to improve reportable segment disclosure requirements. The new guidance requires disclosure of significant segment expenses that are regularly provided to the chief operating decision maker and included in the reported measure of segment profit or loss. It does not change the definition of a segment or the guidance for determining reportable segments. The new guidance is effective for the Company in the annual period beginning January 1, 2024 and in 2025 for interim periods. Adoption of this ASU will result in additional disclosure, but it will not impact the Company's consolidated financial position, results of operations or cash flows.~~

~~In December 2023, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") 2023-09, Improvements to Income Tax Disclosures, which enhances the transparency of income tax disclosures in ASC 740, Income Taxes, primarily related to rate reconciliation and income taxes paid information. The ASU is effective for fiscal years beginning after December 15, 2024 and early adoption is permitted. The Company is currently assessing the impact on its Consolidated Condensed Financial Statements and related disclosures.~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_OrganizationConsolidationAndPresentationOfFinancialStatementsAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~The entire disclosure for the organization, consolidation and basis of presentation of financial statements disclosure, and significant accounting policies of the reporting entity. May be provided in more than one note to the financial statements, as long as users are provided with an understanding of (1) the significant judgments and assumptions made by an enterprise in determining whether it must consolidate a VIE and/or disclose information about its involvement with a VIE, (2) the nature of restrictions on a consolidated VIE's assets reported by an enterprise in its statement of financial position, including the carrying amounts of such assets, (3) the nature of, and changes in, the risks associated with an enterprise's involvement with the VIE, and (4) how an enterprise's involvement with the VIE affects the enterprise's financial position, financial performance, and cash flows. Describes procedure if disclosures are provided in more than one note to the financial statements.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 235 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/235/tableOfContentReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 275 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/275/tableOfContentReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/810/tableOfContentReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/205/tableOfContent~~

~~+ Details~~

~~Name:us-gaap_OrganizationConsolidationAndPresentationOfFinancialStatementsDisclosureAndSignificantAccountingPoliciesTextBlock Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration XML 63 R10.htm IDEA: XBRL DOCUMENT~~

~~**Earnings per share**~~ ~~**6 Months Ended**~~
~~**Jun. 30, 2024**~~
~~**Earnings Per Share [Abstract]**~~ ~~**Earnings per share**~~~~**Earnings per share**~~

~~Basic earnings per share are computed by dividing net income or loss for the period by the weighted-average number of ordinary shares outstanding, net of treasury shares and shares held in ESOP. Diluted earnings per share are computed by dividing net income for the period by the weighted average number of ordinary shares outstanding and the dilutive ordinary shares equivalents.~~

~~Basic and diluted earnings per share were calculated as follows:~~

~~**Second Quarter** **Year-to-date** In millions except share and per-share data **2024** 2023~~

~~**2024** 2023 **Basic (loss) / earnings:** Net (loss) / income from continuing operations **$(0.4)** $4.9 **$2.4** $5.4 Net loss from discontinued operations **(0.1)** (0.2) **(0.2)** (0.2) **Net (loss) / income** **$(0.5)** $4.7 **$2.2** $5.2~~
~~**Weighted average number of £0.50 ordinary shares:** For basic earnings per share **26,831,372** 26,923,804 **26,826,123** 26,922,528 Dilutive effect of potential common stock **100,919** 141,534 **66,107** 161,458 For diluted earnings per share~~

~~**26,932,291** 27,065,338 **26,892,230** 27,083,986~~
~~**(Loss) / earnings per share using weighted average number of ordinary shares outstanding**[1]**:** Basic (loss) / earnings per ordinary share for continuing operations **$(0.01)** $0.18 **$0.09** $0.20 Basic loss per ordinary share for discontinued~~

~~operations **(0.01)** (0.01) **(0.01)** (0.01) **Basic (loss) / earnings per ordinary share** **$(0.02)** $0.17 **$0.08** $0.19 Diluted (loss) / earnings per ordinary share for continuing operations **$(0.01)** $0.18 **$0.09** $0.20 Diluted loss per ordinary share for discontinued operations — (0.01) **(0.01)** (0.01) **Diluted (loss) / earnings per ordinary share** **$(0.02)** $0.17 **$0.08** $0.19~~

~~(1) The calculation of earnings per share is performed separately for continuing and discontinued operations. As a result, the sum of the two in any particular period may not equal the earnings-per-share amount in total~~

~~Basic average shares outstanding and diluted average shares outstanding were the same for discontinued operations because the effect of potential shares of common stock was anti-dilutive since the Company generated a net loss from discontinued operations.~~

~~**- References**~~

~~**No definition available.**~~

~~**+ Details**~~

~~**Name:us-gaap_EarningsPerShareAbstract** **Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration**~~

~~**- Definition**~~

~~**The entire disclosure for earnings per share.**~~

~~**+ References**~~

~~**Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/260/tableOfContentReference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-3**~~

~~**+ Details**~~

~~**Name:us-gaap_EarningsPerShareTextBlock** **Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration XML 64 R11.htm IDEA: XBRL DOCUMENT**~~

~~**Net Sales**~~ ~~**6 Months Ended**~~
~~**Jun. 30, 2024**~~
~~**Revenue from Contract with Customer [Abstract]**~~ ~~**Net Sales**~~

~~**Net SalesThe Company’s performance obligations are satisfied at a point in time. With the reclassification of our Superform business as discontinued operations, none of the Company's revenue from continuing operations is satisfied over time. As a result, the Company's contract receivables, contract assets and contract liabilities are included within current assets and liabilities held-for-sale.**~~

~~Disaggregated sales disclosures for the second quarter and year-to-date ended June 30, 2024, and July 2, 2023, are included below and in Note 15, Segmental Information.~~

~~**Second Quarter** **2024** **2023** In millions Gas Cylinders Elektron Graphic Arts Total Gas Cylinders Elektron Graphic Arts Total Defense, First Response & Healthcare **$24.6** **$17.9** **$—** **$42.5** $20.9 $26.8 $— $47.7 Transportation **17.2** **11.1** **—** **28.3** 18.6 12.9 — 31.5 General industrial **8.0** **13.0** **7.9** **28.9** 9.0 13.3 8.9 31.2 **$49.8** **$42.0** **$ 7.9** **$99.7** $48.5 $53.0 $8.9 $110.4~~

~~**Year-to-date** **2024** **2023** In millions Gas Cylinders Elektron Graphic Arts Total Gas Cylinders Elektron Graphic Arts Total Defense, First Response & Healthcare **$45.2** **$31.8** **$—** **$77.0** $39.0 $50.9 $— $89.9 Transportation **36.3** **20.9** **—** **57.2** 32.5 25.7 $— 58.2 General industrial **13.7** **27.0** **14.2** **54.9** 18.5 28.8 $16.3 63.6 **$95.2** **$79.7** **$ 14.2** **$189.1** $90.0 $105.4 $16.3 $211.7~~

~~**- References**~~

~~**No definition available.**~~

~~**+ Details**~~

~~**Name:us-gaap_RevenueFromContractWithCustomerAbstract** **Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration**~~

~~**- Definition**~~

~~**The entire disclosure of revenue from contract with customer to transfer good or service and to transfer nonfinancial asset. Includes, but is not limited to, disaggregation of revenue, credit loss recognized from contract with customer, judgment and change in judgment related to contract with customer, and asset recognized from cost incurred to obtain or fulfill contract with customer. Excludes insurance and lease contracts.**~~

~~**+ References**~~

~~**Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-9Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-10Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-15Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-12Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-12Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-12Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-12Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-12Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-13Reference 10:**~~

~~http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Topic 606 -Publisher FASB -URI https://asc.fasb.org/606/tableOfContent~~

~~+ Details~~

~~Name:us-gaap_RevenueFromContractWithCustomerTextBlock Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration XML~~

~~65 R12.htm IDEA: XBRL DOCUMENT~~

~~Restructuring~~	~~6 Months Ended~~ ~~Jun. 30, 2024~~
~~Restructuring and Related Activities [Abstract]~~	
~~Restructuring~~	~~Restructuring~~

~~The $1.1 million and $1.8 million restructuring charge in the second quarter and first six months, respectively, of 2024 predominantly relates to continued costs aimed at reducing our fixed cost structure and realigning our business.~~

~~The $2.5 million and $2.8 million restructuring charge in the second quarter and first half, respectively, of 2023 relates predominantly to asset impairments in relation to rationalization of our North American Gas Cylinders businesses to reduce our fixed cost base. This amounted to $2.3 million in both the second quarter and first half of the year respectively. There was an additional $0.1 million and $0.4 million of other expenses in the second quarter and first half respectively, in relation to the aforementioned rationalization.~~

~~Restructuring-related costs by reportable segment were as follows:~~

	~~Second Quarter~~		~~Year-to-date~~	
~~In millions~~	~~2024~~	~~2023~~	~~2024~~	~~2023~~
~~Severance and other costs~~				
~~Gas Cylinders~~	~~$1.1~~	~~$0.2~~	~~$1.6~~	~~$0.5~~
~~Elektron~~	~~—~~	~~—~~	~~0.2~~	~~—~~
	~~$1.1~~	~~$0.2~~	~~$1.8~~	~~$0.5~~
~~Asset impairments~~				
~~Gas Cylinders~~	~~$—~~	~~$2.3~~	~~$—~~	~~$2.3~~
~~Total restructuring charges~~	~~$1.1~~	~~$2.5~~	~~$1.8~~	~~$2.8~~

~~Activity related to restructuring, recorded in Other current liabilities in the consolidated balance sheets is summarized as follows:~~

~~In millions~~	~~2024~~
~~Balance at January 1,~~	~~$3.3~~
~~Costs incurred~~	~~1.8~~
~~Cash payments and other~~	~~(1.9)~~
~~Balance at June 30,~~	~~$3.2~~

~~- References~~

~~***No definition available.***~~

~~***+ Details***~~
~~***Name:us-gaap_RestructuringAndRelatedActivitiesAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration***~~

~~***- Definition***~~

~~***The entire disclosure for restructuring and related activities. Description of restructuring activities such as exit and disposal activities, include facts and circumstances leading to the plan, the expected plan completion date, the major types of costs associated with the plan activities, total expected costs, the accrual balance at the end of the period, and the periods over which the remaining accrual will be settled.***~~

~~***+ References***~~

~~***Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/420/tableOfContentReference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1***~~

~~***+ Details***~~
~~***Name:us-gaap_RestructuringAndRelatedActivitiesDisclosureTextBlock Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration XML 66 R13.htm IDEA: XBRL DOCUMENT***~~

~~***Other Income***~~	~~***6 Months Ended Jun. 30, 2024***~~
~~***Other Income and Expenses [Abstract]***~~	
~~***Other income***~~	~~***Other income***~~

~~*In December 2023, it was established that any potential liability arising from the lawsuits and reasonable defense costs related to the previously disclosed US Ecology case are covered by insurance. The Company recognized $5.1 million and $5.3 million in the second quarter and first half, respectively, of 2024, in relation to these costs previously incurred by the Company. The Company received $4.5 million in the first half of 2024 with a further $0.8 million confirmed in June 2024 and received in July 2024.*~~

~~*The Company is still in negotiations with the insurance company with regard to final payment of previously-paid litigation costs. We are unable to reliably estimate the recoverable amount, and given the uncertainty, we have not recognized anything additional to amounts received.*~~

~~***- References***~~

~~***No definition available.***~~

~~***+ Details***~~
~~***Name:us-gaap_OtherIncomeAndExpensesAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration***~~

~~***- Definition***~~

~~***The entire disclosure for other operating income and other operating expense items.***~~

~~***+ References***~~

~~***Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(2)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1***~~

~~***+ Details***~~
~~***Name:us-gaap_OtherOperatingIncomeAndExpenseTextBlock Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration XML 67 R14.htm IDEA: XBRL DOCUMENT***~~

~~***Income Taxes***~~	~~***6 Months Ended Jun. 30, 2024***~~
~~***Income Tax Disclosure [Abstract]***~~	
~~***Income Taxes***~~	~~***Income Taxes***~~

~~*We manage our affairs so that we are centrally managed and controlled in the United Kingdom (“U.K.”) and therefore have our tax residency in the U.K. The provision for income taxes consists of provisions for the U.K. and international income taxes. We operate in an international environment with operations in various locations outside the U.K. Accordingly, the consolidated income tax rate is a composite rate reflecting the earnings in the various locations and the applicable rates.*~~

~~*The effective income tax rate on continuing operations for the first half ended June 30, 2024, was a 63.1%, tax charge compared to a 50.0% credit for the first half ended July 2, 2023. The rate was impacted by non-deductible expenses and the loss on held-for-sale asset group. 2023 was also impacted by a deferred tax credit primarily in relation to the U.S. pension buyout..*~~

~~***- References***~~

~~*No definition available.*~~

~~*+ Details*~~

~~*Name:us-gaap_IncomeTaxDisclosureAbstract*~~ ~~*Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration*~~

~~*- Definition*~~

~~*The entire disclosure for income tax.*~~

~~*+ References*~~

~~*Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 231 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482663/740-10-55-231Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12C -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12CReference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12B -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12BReference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 270 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477891/740-270-50-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 6.I.5.Q1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479360/740-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480990/946-20-50-13Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(h)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/740/tableOfContentReference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-14Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 21 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-21Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 17 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-17Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 11.C) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479360/740-10-S99-2Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482603/740-30-50-2*~~

~~+ Details~~

~~Name:us-gaap_IncomeTaxDisclosureTextBlock Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration XML 68 R15.htm IDEA: XBRL DOCUMENT~~

~~Acquisition and disposal related costs6 Months Ended~~
~~Jun. 30, 2024~~

~~Business Combinations [Abstract] Acquisition and disposal related costsAcquisition and disposal related costs~~

	~~Second Quarter~~		~~Year-to-date~~	
~~In millions~~	~~**2024**~~	~~2023~~	~~**2024**~~	~~2023~~
~~Loss on held-for-sale asset group~~	~~**$7.5**~~	~~$—~~	~~**$7.5**~~	~~$—~~
~~Disposal related costs~~	~~**1.7**~~	~~—~~	~~**1.9**~~	~~—~~
	~~**$9.2**~~	~~$—~~	~~**$9.4**~~	~~$—~~

~~The $7.5 million loss on held-for-sale asset group relates to the Graphic Arts' assets which have been revalued to the expected consideration the Company will receive.~~

~~Disposal-related costs of $1.7 million and $1.9 million in the second quarter and first half of 2024, respectively, represent professional fees incurred and accrued in relation to the planned divestiture of the Graphic Arts segment.~~

~~- Definition~~

~~The entire disclosure for a business combination (or series of individually immaterial business combinations) completed during the period, including background, timing, and recognized assets and liabilities. The disclosure may include leverage buyout transactions (as applicable).~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479907/805-20-50-5Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 805 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/805/tableOfContent~~

~~+ Details~~

~~Name:us-gaap_BusinessCombinationDisclosureTextBlock Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_BusinessCombinationsAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration XML 69 R16.htm IDEA: XBRL DOCUMENT~~

~~Supplementary balance sheet information6 Months Ended~~
~~Jun. 30, 2024~~

~~Organization, Consolidation and Presentation of Financial Statements [Abstract] Supplementary balance sheet informationSupplementary balance sheet information~~

	~~June 30,~~	~~December 31,~~
~~In millions~~	~~**2024**~~	~~2023~~
~~**Accounts and other receivables**~~		
~~Trade receivables~~	~~**$53.7**~~	~~$52.3~~
~~Related parties~~	~~**0.1**~~	~~0.1~~
~~Prepayments and accrued income~~	~~**4.1**~~	~~5.7~~
~~Derivative financial instruments~~	~~**—**~~	~~0.4~~
~~Other receivables~~	~~**3.0**~~	~~1.4~~
~~Total accounts and other receivables~~	~~**$60.9**~~	~~$59.9~~
~~**Inventories**~~		
~~Raw materials and supplies~~	~~**$32.4**~~	~~$34.7~~
~~Work-in-process~~	~~**27.8**~~	~~34.8~~
~~Finished goods~~	~~**28.0**~~	~~26.4~~
~~Total inventories~~	~~**$88.2**~~	~~$95.9~~
~~**Other current assets**~~		
~~Income tax receivable~~	~~**1.5**~~	~~1.5~~
~~Total other current assets~~	~~**$1.5**~~	~~$1.5~~
~~**Property, plant and equipment, net**~~		
~~Land, buildings and leasehold improvements~~	~~**$51.9**~~	~~$51.0~~
~~Machinery and equipment~~	~~**238.4**~~	~~234.9~~
~~Construction in progress~~	~~**11.6**~~	~~13.6~~
~~Total property, plant and equipment~~	~~**301.9**~~	~~299.5~~
~~Accumulated depreciation and impairment~~	~~**(238.8)**~~	~~(235.7)~~
~~Total property, plant and equipment, net~~	~~**$63.1**~~	~~$63.8~~
~~**Current maturities of long-term debt and short-term borrowings**~~		
~~Overdrafts~~	~~**0.2**~~	~~4.6~~
~~Total current maturities of long-term debt and short-term borrowings~~	~~**$0.2**~~	~~$4.6~~
~~**Other current liabilities**~~		
~~Restructuring provision~~	~~**$3.2**~~	~~$3.3~~
~~Short term provision~~	~~**0.1**~~	~~0.1~~
~~Derivative financial instruments~~	~~**0.2**~~	~~—~~
~~**Operating lease liability**~~	~~**4.0**~~	~~4.7~~
~~Advance payments~~	~~**1.9**~~	~~0.8~~
~~Total other current liabilities~~	~~**$9.4**~~	~~$8.9~~
~~**Other non-current liabilities**~~		
~~Contingent liabilities~~	~~**$1.8**~~	~~$1.6~~
~~**Operating lease liability**~~	~~**12.7**~~	~~15.0~~
~~Other non-current liabilities~~	~~**—**~~	~~0.2~~
~~Total other non-current liabilities~~	~~**$14.5**~~	~~$16.8~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_OrganizationConsolidationAndPresentationOfFinancialStatementsAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~The entire disclosure for supplemental balance sheet disclosures, including descriptions and amounts for assets, liabilities, and equity.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/210/tableOfContent~~

~~+ Details~~

~~Name:us-gaap_SupplementalBalanceSheetDisclosuresTextBlock~~ ~~Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration~~

~~XML 70 R17.htm IDEA: XBRL DOCUMENT~~

~~Goodwill and other identifiable intangible assets~~ ~~6 Months Ended~~
~~Jun. 30, 2024~~

~~Goodwill and Intangible Assets Disclosure [Abstract]~~ ~~Goodwill and other identifiable intangible assets~~ ~~Goodwill and other identifiable intangible assets~~

~~Changes in goodwill during the first half ended June 30, 2024, were as follows:~~

~~In millions~~	~~Gas Cylinders~~	~~Elektron~~	~~Total~~
~~At January 1, 2024~~	~~$26.2~~	~~$41.3~~	~~$67.5~~
~~Exchange difference~~	~~(0.2)~~	~~(0.1)~~	~~(0.3)~~
~~Net balance at June 30, 2024~~	~~$26.0~~	~~$41.2~~	~~$67.2~~

~~Accumulated goodwill impairment losses in relation to continuing activities were $8.0 million as of June 30, 2024 and December 31, 2023.~~

~~Identifiable intangible assets consisted of the following:~~

~~In millions~~	~~Customer relationships~~	~~Technology and trading related~~	~~Total~~
~~Cost:~~	~~-~~	~~-~~	
~~At January 1 and June 30, 2024~~	~~$15.2~~	~~$7.8~~	~~$23.0~~
~~Accumulated amortization:~~	~~-~~	~~-~~	
~~At January 1, 2024~~	~~$6.6~~	~~$4.4~~	~~$11.0~~
~~Charge~~	~~0.2~~	~~0.2~~	~~0.4~~
~~At June 30, 2024~~	~~$6.8~~	~~$4.6~~	~~$11.4~~
~~Net book values:~~	~~-~~	~~-~~	
~~At January 1, 2024~~	~~$8.6~~	~~$3.4~~	~~$12.0~~
~~At June 30, 2024~~	~~$8.4~~	~~$3.2~~	~~$11.6~~

~~Identifiable intangible asset amortization expense was $0.4 million and $0.4 million for the first half of 2024 and 2023 respectively.~~

~~Intangible asset amortization expense during each of the following five years is expected to be approximately $0.8 million per year.~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_GoodwillAndIntangibleAssetsDisclosureAbstract~~ ~~Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~The entire disclosure for goodwill and intangible assets.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/350-30/tableOfContentReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/350-20/tableOfContent~~

~~+ Details~~

~~Name:us-gaap_GoodwillAndIntangibleAssetsDisclosureTextBlock~~ ~~Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration~~

~~XML 71 R18.htm IDEA: XBRL DOCUMENT~~

~~Debt~~ ~~6 Months Ended~~
~~Jun. 30, 2024~~

~~Debt Disclosure [Abstract]~~ ~~Debt~~ ~~Debt~~

~~Debt outstanding was as follows:~~

~~In millions~~	~~June 30, 2024~~	~~December 31, 2023~~
~~4.94% Loan Notes due 2026~~	~~$25.0~~	~~$25.0~~
~~Revolving credit facility~~	~~49.3~~	~~43.1~~
~~Bank overdraft~~	~~0.2~~	~~4.6~~
~~Unamortized debt issuance costs~~	~~(0.3)~~	~~(0.5)~~
~~Total debt~~	~~74.2~~	~~72.2~~
~~Less current portion~~	~~(0.2)~~	~~(4.6)~~
~~Non-current debt~~	~~$74.0~~	~~$67.6~~

~~The weighted-average interest rate on the revolving credit facility was 7.80% for the first half of the year and 7.70% for the full-year 2023.~~

~~**10. Debt (continued)**~~

~~**Loan notes due and shelf facility**~~

~~The Note Purchase Agreement and Private Shelf Agreement requires us to maintain compliance with a minimum interest coverage ratio and a leverage ratio. We have been in compliance with the covenants under the Note Purchase and Private Shelf Agreement throughout all of the quarterly measurement dates from and including September 30, 2014, to June 30, 2024.~~

~~The Loan Notes due 2026, the Shelf Facility and the Note Purchase and Private Shelf Agreement are governed by the law of the State of New York.~~

~~**Senior Facilities Agreement**~~

~~During the first half of 2024, we drew down net $6.4 million on the Revolving Credit Facility and the balance outstanding at June 30, 2024, was $49.3 million, and at December 31, 2023, was $43.1 million, with $75.7 million undrawn at June 30, 2024.~~

~~We have been in compliance with the covenants under the Senior Facilities Agreement throughout all of the quarterly measurement dates from and including September 30, 2011 to June 30, 2024.~~

~~**Bank Overdraft**~~

~~The bank overdraft is an uncommitted facility with no expiration date, this is reviewed annually and can be cancelled by either the bank or the Company on demand.~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_DebtDisclosureAbstract~~ ~~Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~The entire disclosure for information about short-term and long-term debt arrangements, which includes amounts of borrowings under each line of credit, note payable, commercial paper issue, bonds indenture, debenture issue, own-share lending arrangements and any other contractual agreement to repay funds, and about the underlying arrangements, rationale for a classification as long-term, including repayment terms, interest rates, collateral provided, restrictions on use of assets and activities, whether or not in compliance with debt covenants, and other matters important to users of the financial statements, such as the effects of refinancing and noncompliance with debt covenants.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481544/470-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481544/470-10-50-6Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 405 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477092/405-40-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 405 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477092/405-40-50-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 405 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477092/405-40-50-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 405 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477092/405-40-50-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 405 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -~~

~~URI https://asc.fasb.org/1943274/2147477092/405-40-50-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(c)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 10: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 470 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/470/tableOfContentReference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1C -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1CReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1C -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1CReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1C -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1CReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1I -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1IReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1I -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1IReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1I -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1I~~

~~+ Details~~

~~Name:us-gaap_DebtDisclosureTextBlock Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration XML 72 R19.htm IDEA:~~

~~XBRL DOCUMENT~~

~~Discontinued Operations6 Months Ended~~

~~Jun. 30, 2024~~

~~Discontinued Operations and Disposal Groups [Abstract]~~ ~~Discontinued Operations~~

~~Discontinued OperationsHeld-for-sale assets and liabilitiesIn accordance with ASC 205-20 and ASC 360-10, our Graphic Arts business is classified as held-for-sale at June 30, 2024, however the business does not meet the criteria to be classified as a discontinued operation.~~

~~Our Superform aluminum superplastic forming business operating in the U.S. was historically included in the Gas Cylinders segment. As a result of our decision to exit non-strategic aluminum product lines, we have reflected the results of operations of this business as discontinued operations in the Condensed Consolidated Statements of Income for all periods presented. We expect the sale of our Superform business to occur in 2024.~~

~~The assets and liabilities of the Superform business have been presented within assets held-for-sale and liabilities held-for-sale in the consolidated balance sheets for 2024 and 2023.~~

~~Results of discontinued operations in the first six months of 2024 and 2023 were as follows:~~

~~Second Quarter Year-to-date In millions 2024 2023 2024 2023 Net sales $1.6 $ 1.9 $3.1 $4.2 Cost of goods sold (1.4) (1.7) (2.5) (3.6) Gross profit 0.2 0.2 0.6 0.6 Selling, general and administrative expenses (0.4) (0.4) (0.8) (0.7) Restructuring charge — (0.1) (0.1) (0.2) Operating loss (0.2) (0.3) (0.3) (0.3) Tax credit 0.1 0.1 0.1 0.1 Net loss $(0.1) $(0.2) $(0.2) $(0.2)~~

~~11. Discontinued Operations (continued)~~

~~The assets and liabilities classified as held-for-sale related to discontinued operations were as follows:~~

~~Held-for-sale assets June 30, December 31, In millions 2024 2023 Inventory $3.7 $3.3 Accounts and other receivables 2.1 2.3 Current assets 5.8 5.6 Right-of-use-assets 1.7 2.1 Held-for-sale assets $7.5 $7.7 Held-for-sale liabilities Accounts payable $0.7 $0.9 Accrued liabilities 0.3 0.4 Other liabilities 2.4 2.6 Held-for-sale liabilities $3.4 $3.9~~

~~There was $0.1m of capital expenditure in the second half of 2024 (2023: none), there was no depreciation and amortization or any other significant non-cash items.~~

~~The total assets and liabilities classified as held-for-sale, including those that qualify as discontinued operations are as follows:~~

~~Held-for-sale assets June 30, December 31, In millions 2024 2023 Inventory $ 12.3 $3.3 Accounts and other receivables 8.2 2.3 Current assets 20.5 5.6 Property, plant and equipment 1.2 1.2 Right-of-use-assets 1.7 2.1 Non-current assets 2.9 3.3 Total held-for-sale assets $23.4 $8.9 Held-for-sale liabilities Accounts payable 2.9 0.9 Accrued liabilities 2.9 0.4 Other liabilities 3.6 2.6 Held-for-sale liabilities $9.4 $3.9~~

~~As a result of the Company's strategic review process announced in October 2023, the Company concluded that its Graphic Arts business no longer aligns with the Company's overall business and value proposition. In 2024, the Company initiated a sale process for its Graphic Arts business with the intention of divesting this business in 2024.~~

~~In the second quarter of 2024, the company recognized a $7.5 million loss on held-for-sale asset group recognized in continuing operations, relating to our Graphic Arts segment to reflect the the fair value of Graphic Arts. A $1.4 million accrual, also recognized within acquisition and disposal related costs in the Income Statement, has been recognized for expected costs in relation to professional fees in relation to the planned divestiture of the Graphic Arts segment.~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_DiscontinuedOperationsAndDisposalGroupsAbstract~~ ~~Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~The entire disclosure related to a disposal group. Includes, but is not limited to, a discontinued operation, disposal classified as held-for-sale or disposed of by means other than sale or disposal of an individually significant component.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/205-20/tableOfContentReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/360/tableOfContent~~

~~+ Details~~

~~Name:us-gaap_DisposalGroupsIncludingDiscontinuedOperationsDisclosureTextBlock~~ ~~Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration XML 73 R20.htm IDEA: XBRL DOCUMENT~~

~~Held-for-sale assets and liabilities6 Months Ended~~

~~Jun. 30, 2024~~

~~Discontinued Operations and Disposal Groups [Abstract]~~ ~~Held-for-sale assets and liabilities~~

~~Discontinued OperationsHeld-for-sale assets and liabilitiesIn accordance with ASC 205-20 and ASC 360-10, our Graphic Arts business is classified as held-for-sale at June 30, 2024, however the business does not meet the criteria to be classified as a discontinued operation.~~

~~Our Superform aluminum superplastic forming business operating in the U.S. was historically included in the Gas Cylinders segment. As a result of our decision to exit non-strategic aluminum product lines, we have reflected the results of operations of this business as discontinued operations in the Condensed Consolidated Statements of Income for all periods presented. We expect the sale of our Superform business to occur in 2024.~~

~~The assets and liabilities of the Superform business have been presented within assets held-for-sale and liabilities held-for-sale in the consolidated balance sheets for 2024 and 2023.~~

~~Results of discontinued operations in the first six months of 2024 and 2023 were as follows:~~

~~Second Quarter Year-to-date In millions 2024 2023 2024 2023 Net sales $1.6 $ 1.9 $3.1 $4.2 Cost of goods sold (1.4) (1.7) (2.5) (3.6) Gross profit 0.2 0.2 0.6 0.6 Selling, general and administrative expenses (0.4) (0.4) (0.8) (0.7) Restructuring charge — (0.1) (0.1) (0.2) Operating loss (0.2) (0.3) (0.3) (0.3) Tax credit 0.1 0.1 0.1 0.1 Net loss $(0.1) $(0.2) $(0.2) $(0.2)~~

~~11. Discontinued Operations (continued)~~

~~The assets and liabilities classified as held-for-sale related to discontinued operations were as follows:~~

~~Held-for-sale assets June 30, December 31, In millions 2024 2023 Inventory $3.7 $3.3 Accounts and other receivables 2.1 2.3 Current assets 5.8 5.6 Right-of-use-assets 1.7 2.1 Held-for-sale assets $7.5 $7.7 Held-for-sale liabilities Accounts payable $0.7 $0.9 Accrued liabilities 0.3 0.4 Other liabilities 2.4 2.6 Held-for-sale liabilities $3.4 $3.9~~

~~There was $0.1m of capital expenditure in the second half of 2024 (2023: none), there was no depreciation and amortization or any other significant non-cash items.~~

~~The total assets and liabilities classified as held-for-sale, including those that qualify as discontinued operations are as follows:~~

~~Held-for-sale assets June 30, December 31, In millions 2024 2023 Inventory $ 12.3 $3.3 Accounts and other receivables 8.2 2.3 Current assets 20.5 5.6 Property, plant and equipment 1.2 1.2 Right-of-use-assets 1.7 2.1 Non-current assets 2.9 3.3 Total held-for-sale assets $23.4 $8.9 Held-for-sale liabilities Accounts payable 2.9 0.9 Accrued liabilities 2.9 0.4 Other liabilities 3.6 2.6 Held-for-sale liabilities $9.4 $3.9~~

~~As a result of the Company's strategic review process announced in October 2023, the Company concluded that its Graphic Arts business no longer aligns with the Company's overall business and value proposition. In 2024, the Company initiated a sale process for its Graphic Arts business with the intention of divesting this business in 2024.~~

~~In the second quarter of 2024, the company recognized a $7.5 million loss on held-for-sale asset group recognized in continuing operations, relating to our Graphic Arts segment to reflect the the fair value of Graphic Arts. A $1.4 million accrual, also recognized within acquisition and disposal related costs in the Income Statement, has been recognized for expected costs in relation to professional fees in relation to the planned divestiture of the Graphic Arts segment.~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_DiscontinuedOperationsAndDisposalGroupsAbstract~~ ~~Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~The entire disclosure related to a disposal group. Includes, but is not limited to, a discontinued operation, disposal classified as held-for-sale or disposed of by means other than sale or disposal of an individually significant component.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/205-20/tableOfContentReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/360/tableOfContent~~

~~+ Details~~

~~Name:us-gaap_DisposalGroupsIncludingDiscontinuedOperationsDisclosureTextBlock Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration XML 74 R21.htm IDEA: XBRL DOCUMENT~~

~~Share Plans~~ ~~6 Months Ended~~
~~Jun. 30, 2024~~

~~Share-Based Payment Arrangement [Abstract]~~ ~~Share Plans~~~~Share Plans~~

~~Total share-based compensation expense for the quarters ended June 30, 2024, and July 2, 2023, was as follows:~~

~~Second Quarter~~ ~~Year-to-date~~ ~~In millions~~ ~~2024~~ ~~2023~~ ~~2024~~ ~~2023~~ ~~Total share-based compensation charges~~ ~~$0.8~~ ~~$0.7~~ ~~$1.4~~ ~~$1.3~~

~~In March 2024, we issued our annual share-based compensation grants under the Luxfer Holdings PLC Long-Term Umbrella Incentive Plan. The total number of awards issued was approximately 155,000 and the weighted average fair value of options granted in 2024 was estimated to be $10.44 per share.~~

~~In June 2024, we issued our annual share-based compensation grants under the Luxfer Holdings PLC Non-Executive Directors' Equity Incentive Plan. The total number of awards issued was 47,012 and the weighted-average fair value of options granted was estimated to be $10.53 per share.~~

~~The following table illustrates the assumptions used in deriving the fair value of share options granted during 2024 and the year-ended December 31, 2023:~~

~~2024~~ ~~2023~~ ~~Dividend yield (%)~~
~~3.15 - 3.32~~
~~3.15 - 3.32~~ ~~Expected volatility range (%)~~
~~31.54 - 43.49~~
~~31.54 - 43.49~~ ~~Risk-free interest rate (%)~~
~~3.67 - 5.16~~
~~3.67 - 5.16~~ ~~Expected life of share options range (years)~~
~~1.00 - 4.00~~
~~1.00 - 4.00~~ ~~Forfeiture rate (%)~~ ~~5.00~~ ~~5.00~~ ~~Weighted average exercise price ($)~~ ~~$1.00~~ ~~$1.00~~ ~~Model used~~ ~~Black-Scholes & Monte-Carlo~~ ~~Black-Scholes & Monte-Carlo~~

~~The expected life of the share options is based on historical data and current expectations, and is not necessarily indicative of exercise patterns that may occur. The expected volatility reflects the assumption that the historical volatility over a period similar to the life of the options is indicative of future trends, which may not necessarily be the actual outcome.~~

~~- Definition~~

~~The entire disclosure for share-based payment arrangement.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/718/tableOfContentReference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (h)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (h)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (l) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2~~

~~+ Details~~

~~Name:us-gaap_DisclosureOfCompensationRelatedCostsShareBasedPaymentsTextBlock Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_DisclosureOfCompensationRelatedCostsSharebasedPaymentsAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type: duration XML 75 R22.htm IDEA: XBRL DOCUMENT~~

~~Shareholders' Equity~~ ~~6 Months Ended~~
~~Jun. 30, 2024~~

~~Equity [Abstract]~~ ~~Shareholders' Equity~~~~Shareholders' Equity~~

~~Dividends paid and proposed~~

~~In millions~~	~~Second Quarter~~ ~~2024~~	~~Second Quarter~~ ~~2023~~	~~Year-to-date~~ ~~2024~~	~~Year-to-date~~ ~~2023~~
~~Dividends declared and paid / accrued during the year:~~				
~~Interim dividend declared January 3, 2023 and paid February 1, 2023 ($0.130 per ordinary share)~~	~~$—~~	~~$—~~	~~$—~~	~~$3.5~~
~~Interim dividend declared April 3, 2023 and paid May 3, 2023 ($0.130 per ordinary share)~~	~~—~~	~~3.5~~	~~—~~	~~3.5~~
~~Interim dividend declared June 29, 2023 and paid August 2, 2023 ($0.130 per ordinary share)~~	~~—~~	~~3.5~~	~~—~~	~~3.5~~
~~Interim dividend declared January 19, 2024 and paid February 7, 2024 ($0.130 per ordinary share)~~	~~—~~	~~—~~	~~3.5~~	~~—~~
~~Interim dividend declared April 9, 2024 and paid May 8, 2024 ($0.130 per ordinary share)~~	~~3.5~~	~~—~~	~~3.5~~	~~—~~
	~~$3.5~~	~~$7.0~~	~~$7.0~~	~~$10.5~~

~~In millions~~	~~2024~~	~~2023~~
~~Dividends declared and paid after the quarter end (not recognized as a liability at the quarter end):~~		
~~Interim dividend declared July 8, 2024 and paid August 7, 2024 ($0.130 per ordinary share)~~	~~$3.5~~	~~$—~~
	~~$3.5~~	~~$—~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_EquityAbstract~~ ~~Namespace Prefix:us-gaap_~~ ~~Data Type:xbrli:stringItemType~~ ~~Balance Type:na~~ ~~Period Type:duration~~

~~- Definition~~

~~The entire disclosure for equity.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-14Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 235 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477968/946-235-50-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 235 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477968/946-235-50-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 505 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478448/946-505-50-6Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480237/815-40-50-6Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(e)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 10: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/505/tableOfContentReference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-14Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-14Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 16 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-16Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-18Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-18Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-18~~

~~**+ Details**~~

~~**Name:us-gaap_StockholdersEquityNoteDisclosureTextBlock** **Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration XML 76 R23.htm IDEA: XBRL DOCUMENT**~~

~~**Segmental Information**~~ ~~**6 Months Ended**~~
~~**Jun. 30, 2024**~~
~~**Segment Reporting [Abstract]**~~ ~~**Segmental Information**~~ ~~**Segmental Information**~~

~~*We classify our operations into business segments, based primarily on shared economic characteristics for the nature of the products and services; the nature of the production processes; the type or class of customer for their products and services; the methods used to distribute their products or provide their services; and the nature of the regulatory environment. The Company has five identified business units, which aggregate into three reportable segments within continuing operations, and one within discontinued operations. Luxfer Gas Cylinders forms the Gas Cylinders segment, and Luxfer MEL Technologies and Luxfer Magtech aggregate into the Elektron segment. As of December 31, 2023, it was determined that the Luxfer Graphic Arts reporting segment no longer met the criteria, specifically, similar economic characteristics, to be aggregated within the Elektron segment for 2023. As a result, Luxfer Graphic Arts has been disaggregated from the Elektron segment and is being reported separately as the Graphic Arts segment. The Elektron segment's results for 2023 have been adjusted to exclude Graphic Arts' results. Our Superform business unit used to aggregate into the Gas Cylinders segment but is now recognized within discontinued operations. A summary of the operations of the segments within continuing operations is provided below:*~~

~~*Gas Cylinders segment*~~

~~*Our Gas Cylinders segment manufactures and markets specialized highly-engineered cylinders, using composites and aluminum alloys, including pressurized cylinders for use in various applications including self-contained breathing apparatus ('SCBA') for firefighters, containment of oxygen and other medical gases for healthcare, alternative fuel ('AF') vehicles, and general industrial applications.*~~

~~*Elektron segment*~~ ~~*Our Elektron segment focuses on specialty materials based primarily on magnesium and zirconium, with key product lines including advanced lightweight magnesium alloys with a variety of uses across a variety of industries; magnesium powders for use in countermeasure flares, as well as heater meals; and high-performance zirconium-based materials and oxides used as catalysts and in the manufacture of advances ceramics, fiber-optic fuel cells, and many other performance products.*~~

~~*Graphic Arts segment*~~

~~*Our Graphic Arts segment provides a full range of pre-sensitized magnesium, copper and zinc plates, along with associated chemicals, for the production of foil-stamping and embossing dies. In addition, non-sensitized polished brass and magnesium plates are also manufactured for computer numerical control ('CNC') engraving. The segment also advises on turnkey engraving operations, complete with etching machines, computer-to-plate ('CtP') machines, exposure units and film setters.*~~

~~*Other*~~

~~*Other, as used below, primarily represents unallocated corporate expense and includes non-service related defined benefit pension credit / charge.*~~

~~*Management monitors the operating results of its reportable segments separately for the purpose of making decisions about resource allocation and performance assessment. Segment performance is evaluated by the chief operating decision maker, the CEO, who is responsible for allocating resources and assessing performance of the operating segments, using adjusted EBITA[1] and adjusted EBITDA, which is defined as segment income, and is based on operating income adjusted for share-based compensation charges; restructuring charges; acquisitions and disposals costs; and depreciation and amortization.*~~

~~*Unallocated assets and liabilities include those which are held on behalf of the Company and cannot be allocated to a segment, such as taxation, investments, cash, retirement benefits obligations, bank and other loans and holding company assets and liabilities.*~~

~~*Financial information by reportable segment for the Second Quarter and first half ended June 30, 2024, and July 2, 2023, is included in the following summary:*~~

	~~**Net sales**~~				~~**Adjusted EBITDA**~~			
	~~**Second Quarter**~~		~~**Year-to-date**~~		~~**Second Quarter**~~		~~**Year-to-date**~~	
~~*In millions*~~	~~**2024**~~	~~**2023**~~	~~**2024**~~	~~**2023**~~	~~**2024**~~	~~**2023**~~	~~**2024**~~	~~**2023**~~
~~*Gas Cylinders segment*~~	~~**$49.8**~~	~~$48.5~~	~~**$95.2**~~	~~$90.0~~	~~**$4.9**~~	~~$4.9~~	~~**$9.0**~~	~~$7.4~~
~~*Elektron segment*~~	~~**42.0**~~	~~53.0~~	~~**79.7**~~	~~105.4~~	~~**12.4**~~	~~9.5~~	~~**18.8**~~	~~19.0~~
~~*Graphic Arts segment*~~	~~**7.9**~~	~~8.9~~	~~**14.2**~~	~~16.3~~	~~**0.1**~~	~~—~~	~~**(1.6)**~~	~~(0.7)~~
~~*Consolidated*~~	~~**$99.7**~~	~~$110.4~~	~~**$189.1**~~	~~$211.7~~	~~**$17.4**~~	~~$14.4~~	~~**$26.2**~~	~~$25.7~~

~~*[1] Adjusted EBITA is adjusted EBITDA less depreciation and loss on disposal of property, plant and equipment.*~~

~~***15. Segmental Information (continued)***~~

	~~**Depreciation and amortization**~~				~~**Restructuring charges**~~			
	~~**Second Quarter**~~		~~**Year-to-date**~~		~~**Second Quarter**~~		~~**Year-to-date**~~	
~~*In millions*~~	~~**2024**~~	~~**2023**~~	~~**2024**~~	~~**2023**~~	~~**2024**~~	~~**2023**~~	~~**2024**~~	~~**2023**~~
~~*Gas Cylinders segment*~~	~~**$0.9**~~	~~$1.0~~	~~**$1.7**~~	~~$2.1~~	~~**$1.1**~~	~~$2.5~~	~~**$1.6**~~	~~$2.8~~
~~*Elektron segment*~~	~~**1.6**~~	~~1.8~~	~~**3.2**~~	~~3.5~~	~~**—**~~	~~—~~	~~**0.2**~~	~~—~~
~~*Graphic Arts segment*~~	~~**—**~~	~~0.5~~	~~**—**~~	~~1.0~~	~~**—**~~	~~—~~	~~**—**~~	~~—~~
~~*Consolidated*~~	~~**$2.5**~~	~~$3.3~~	~~**$4.9**~~	~~$6.6~~	~~**$1.1**~~	~~$2.5~~	~~**$1.8**~~	~~$2.8~~

	~~**Total assets**~~		~~**Capital expenditures**~~			
	~~**June 30,**~~	~~**December 31,**~~	~~**Second Quarter**~~		~~**Year-to-date**~~	
~~*In millions*~~	~~**2024**~~	~~**2023**~~	~~**2024**~~	~~**2023**~~	~~**2024**~~	~~**2023**~~
~~*Gas Cylinders segment*~~	~~**$136.7**~~	~~$131.0~~	~~**$1.3**~~	~~$0.3~~	~~**$2.1**~~	~~$0.6~~
~~*Elektron segment*~~	~~**167.7**~~	~~162.4~~	~~**1.4**~~	~~2.3~~	~~**2.1**~~	~~3.9~~
~~*Graphic Arts segment*~~	~~**14.7**~~	~~19.6~~	~~**0.1**~~	~~0.4~~	~~**0.1**~~	~~0.5~~
~~*Other*~~	~~**53.2**~~	~~51.3~~	~~**—**~~	~~—~~	~~**—**~~	~~—~~
~~*Discontinued operations*~~	~~**7.5**~~	~~7.8~~	~~**—**~~	~~0.2~~	~~**—**~~	~~0.1~~
~~*Consolidated*~~	~~**$379.8**~~	~~$372.1~~	~~**$2.8**~~	~~$3.2~~	~~**$4.3**~~	~~$5.1~~

	~~**Property, plant and equipment, net**~~	
	~~**June 30,**~~	~~**December 31,**~~
~~*In millions*~~	~~**2024**~~	~~**2023**~~
~~*U.S.*~~	~~**$26.8**~~	~~$26.8~~
~~*United Kingdom*~~	~~**32.0**~~	~~32.8~~
~~*Canada*~~	~~**3.0**~~	~~2.9~~
~~*Rest of Europe*~~	~~**1.0**~~	~~1.0~~
~~*Asia Pacific*~~	~~**0.3**~~	~~0.3~~
	~~**$63.1**~~	~~$63.8~~

~~*The following table presents a reconciliation of Adjusted EBITDA to net income before income taxes, from continuing operations:*~~

	~~**Second Quarter**~~		~~**Year-to-date**~~	
~~*In millions*~~	~~**2024**~~	~~**2023**~~	~~**2024**~~	~~**2023**~~
~~*Adjusted EBITDA*~~	~~**$17.4**~~	~~$14.4~~	~~**$26.2**~~	~~$25.7~~
~~*Other share-based compensation charges*~~	~~**(0.8)**~~	~~(0.7)~~	~~**(1.4)**~~	~~(1.3)~~
~~*Depreciation and amortization*~~	~~**(2.5)**~~	~~(3.3)~~	~~**(4.9)**~~	~~(6.6)~~
~~*Restructuring charges*~~	~~**(1.1)**~~	~~(2.5)~~	~~**(1.8)**~~	~~(2.8)~~
~~*Acquisition and disposal related costs*~~	~~**(9.2)**~~	~~—~~	~~**(9.4)**~~	~~—~~
~~*Defined benefits pension credit / (charge)*~~	~~**0.2**~~	~~0.6~~	~~**0.5**~~	~~(8.3)~~
~~*Interest expense, net*~~	~~**(1.3)**~~	~~(1.8)~~	~~**(2.7)**~~	~~(3.1)~~
~~*Net income before income taxes from continuing operations*~~	~~**$2.7**~~	~~$6.7~~	~~**$6.5**~~	~~$3.6~~

~~***15. Segmental Information (continued)***~~

~~*The following tables present certain geographic information by geographic region for the Second Quarter ended June 30, 2024, and July 2, 2023:*~~

~~**Net Sales[1]**~~	~~**Second Quarter**~~				~~**Year-to-date**~~			
	~~**2024**~~		~~**2023**~~		~~**2024**~~		~~**2023**~~	
	~~**$M**~~	~~**Percent**~~	~~**$M**~~	~~**Percent**~~	~~**$M**~~	~~**Percent**~~	~~**$M**~~	~~**Percent**~~
~~*United States*~~	~~**$57.3**~~	~~**57.6 %**~~	~~$67.8~~	~~61.5 %~~	~~**$110.5**~~	~~**58.4 %**~~	~~$125.5~~	~~59.3 %~~
~~*Germany*~~	~~**7.2**~~	~~**7.2 %**~~	~~3.8~~	~~3.4 %~~	~~**12.6**~~	~~**6.7 %**~~	~~10.1~~	~~4.8 %~~
~~*United Kingdom*~~	~~**6.3**~~	~~**6.3 %**~~	~~5.2~~	~~4.7 %~~	~~**10.6**~~	~~**5.6 %**~~	~~10.8~~	~~5.1 %~~
~~*Japan*~~	~~**5.0**~~	~~**5.0 %**~~	~~6.3~~	~~5.7 %~~	~~**9.0**~~	~~**4.8 %**~~	~~10.8~~	~~5.1 %~~
~~*Canada*~~	~~**2.8**~~	~~**2.8 %**~~	~~3.4~~	~~3.1 %~~	~~**6.5**~~	~~**3.4 %**~~	~~5.2~~	~~2.5 %~~
~~**Top five countries**~~	~~**78.6**~~	~~**78.9 %**~~	~~86.5~~	~~78.4 %~~	~~**149.2**~~	~~**78.9 %**~~	~~162.4~~	~~76.7 %~~
~~*Rest of Europe*~~	~~**12.3**~~	~~**12.3 %**~~	~~11.7~~	~~10.6 %~~	~~**24.4**~~	~~**13.0 %**~~	~~24.7~~	~~11.7 %~~
~~*Asia Pacific*~~	~~**6.7**~~	~~**6.7 %**~~	~~8.3~~	~~7.5 %~~	~~**10.3**~~	~~**5.4 %**~~	~~17.3~~	~~8.2 %~~
~~*Other[2]*~~	~~**2.1**~~	~~**2.1 %**~~	~~3.9~~	~~3.5 %~~	~~**5.2**~~	~~**2.7 %**~~	~~7.3~~	~~3.4 %~~
	~~**$99.7**~~		~~$110.4~~		~~**$189.1**~~		~~$211.7~~	

~~*(1) Net sales are based on the geographic destination of sale.*~~

~~*(2) Other includes South America, Latin America and Africa.*~~

~~**- References**~~

~~**No definition available.**~~

~~**+ Details**~~

~~**Name:us-gaap_SegmentReportingAbstract** **Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration**~~

~~**- Definition**~~

~~**The entire disclosure for reporting segments including data and tables. Reportable segments include those that meet any of the following quantitative thresholds a) it's reported revenue, including sales to external customers and intersegment sales or transfers is 10 percent or more of the combined revenue, internal and external, of all operating segments b) the absolute amount of its reported profit or loss is 10 percent or more of the greater, in absolute amount of 1) the combined reported profit of all operating segments that did not report a loss or 2) the combined reported loss of all operating segments that did report a loss c) its assets are 10 percent or more of the combined assets of all operating segments.**~~

~~**+ References**~~

~~**Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 5: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 54 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-54Reference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 47 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-47Reference 8: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 54 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-54Reference 9: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 47 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-47Reference 10: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 54 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-54Reference 11: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 47 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-47Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-31Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 34 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-34Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 26C -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-26CReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 26B -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-26BReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-15Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-42Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-40Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/280/tableOfContentReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 26 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-26Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-41Reference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 21 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-21Reference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name**~~

~~Accounting Standards Codification -Section 50 -Paragraph 21 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-21Reference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32~~

~~+ Details~~

~~Name:us-gaap_SegmentReportingDisclosureTextBlock Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration XML 77 R24.htm IDEA: XBRL DOCUMENT~~

~~**Commitments and Contingencies** **6 Months Ended**~~
~~**Jun. 30, 2024**~~

~~**Commitments and Contingencies Disclosure [Abstract]** Commitments and Contingencies**Commitments and Contingencies**~~

~~**Committed and uncommitted banking facilities**~~

~~The Company had committed banking facilities of $125.0 million at June 30, 2024 and December 31, 2023. Of these committed facilities, $49.3 million was drawn at June 30, 2024 and $43.1 million at December 31, 2023. The Company also had an additional $25.0 million of uncommitted facilities through an accordion provision at June 30, 2024 and December 31, 2023.~~

~~**Uncommitted Facilities**~~	~~**June 30, 2024**~~		~~**December 31, 2023**~~	
	~~**Facility**~~	~~**Drawn**~~	~~**Facility**~~	~~**Drawn**~~
~~Bond and Guarantees~~	~~**$0.6**~~	~~**$0.1**~~	~~$0.6~~	~~$0.2~~
~~Letters of Credit~~	~~**$4.0**~~	~~**$2.2**~~	~~$4.0~~	~~$2.2~~
~~Overdraft~~	~~**$7.8**~~	~~**$0.2**~~	~~$7.8~~	~~$4.6~~
	~~**$12.4**~~	~~**$2.5**~~	~~$12.4~~	~~$7.0~~

~~**Contingencies**~~

~~In November 2018, an alleged explosion occurred at a third-party waste disposal and treatment site in Grand View, Idaho, reportedly causing property damage, personal injury, and one fatality. The Company had contracted with a service company for removal and disposal of certain waste resulting from the magnesium powder manufacturing operations at the Reade facility in Manchester, New Jersey. The Company believes this service company, in turn, contracted with the third-party disposal company, at whose facility the explosion occurred, for treatment and disposal of the waste. In November 2020, we were named as a defendant in three lawsuits in relation to the incident – one by the third-party disposal company, one by the estate of the decedent, and one by an injured employee of the third-party disposal company. The three lawsuits were administratively consolidated and, to date, two lawsuits remain ongoing. The Company believes that we are not liable for the incident, have asserted such, and, in conjunction with our insurers, continue to fully defend the Company against these lawsuits. Therefore, we do not currently expect any eventual outcome in these matters to have a material impact on the Company's financial position or results of operations.~~

~~In December 2023, it was established that any potential liability arising from the lawsuits and reasonable defense costs related to the previously disclosed US Ecology case are covered by insurance. The Company recognized $5.1 million and $5.3 million in the second quarter and first half, respectively, of 2024, in relation to recovery of these costs previously incurred by the Company. The Company received $4.5 million in the first half of 2024 with a further $0.8 million received in July 2024.~~

~~The Company are still in negotiations with the insurance company with regard to final payment of litigation costs. We are unable to reliably estimate the recoverable amount, and given the uncertainty, we have not recognized anything additional to amounts received.~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_CommitmentsAndContingenciesDisclosureAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~The entire disclosure for commitments and contingencies.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 405 -SubTopic 30 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/405-30/tableOfContentReference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 440 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482648/440-10-50-4Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 450 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/450/tableOfContentReference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 954 -SubTopic 440 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478522/954-440-50-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 440 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482648/440-10-50-4Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 440 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/440/tableOfContent~~

~~+ Details~~

~~Name:us-gaap_CommitmentsAndContingenciesDisclosureTextBlock Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration XML 78 R25.htm IDEA: XBRL DOCUMENT~~

~~**Pension Settlement** **6 Months Ended**~~
~~**Jun. 30, 2024**~~

~~**Retirement Benefits [Abstract]** Pension Settlement**Pension Settlement**~~

~~In the first quarter of 2023, there was a $9.2 million charge in relation to the sale of the U.S. pension plan liability to an insurer, which included $2.3 million cash and $6.9 million in relation to the derecognition of the U.S. pension liability and reallocation of accumulated actuarial losses from other comprehensive income. This was partially offset by a $0.3 million defined benefit credit on the U.K. pension plan.~~

~~- References~~

~~*No definition available.*~~

~~*+ Details*~~

~~*Name:us-gaap_CompensationAndRetirementDisclosureAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration*~~

~~*- Definition*~~

~~*The entire disclosure for retirement benefits.*~~

~~*+ References*~~

~~*Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 715 -SubTopic 70 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480794/715-70-50-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 17 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480482/715-20-55-17Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (d)(iv)(03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480506/715-20-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (d)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480506/715-20-50-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (q) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480506/715-20-50-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (l) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480506/715-20-50-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 715 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/715/tableOfContentReference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (d)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480506/715-20-50-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (o) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480506/715-20-50-1Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (p) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480506/715-20-50-1Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (r)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480506/715-20-50-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (r)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480506/715-20-50-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480126/715-20-S99-2Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 715 -SubTopic 60 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480266/715-60-50-3*~~

~~+ Details~~
~~Name:us-gaap_PensionAndOtherPostretirementBenefitsDisclosureTextBlock Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration XML 79 R26.htm IDEA: XBRL DOCUMENT~~
~~Subsequent Events~~ ~~6 Months Ended~~
~~Jun. 30, 2024~~
~~Subsequent Events [Abstract] Subsequent EventsSubsequent Events~~

~~Other than those disclosed elsewhere in the note to the financial statements, no material subsequent events to report.~~

~~- References~~

~~No definition available.~~

~~+ Details~~
~~Name:us-gaap_SubsequentEventsAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~The entire disclosure for significant events or transactions that occurred after the balance sheet date through the date the financial statements were issued or the date the financial statements were available to be issued. Examples include: the sale of a capital stock issue, purchase of a business, settlement of litigation, catastrophic loss, significant foreign exchange rate changes, loans to insiders or affiliates, and transactions not in the ordinary course of business.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 855 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/855/tableOfContentReference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 855 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483399/855-10-50-2~~

~~+ Details~~
~~Name:us-gaap_SubsequentEventsTextBlock Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration XML 80 R27.htm IDEA: XBRL DOCUMENT~~
~~Pay vs Performance Disclosure - USD ($) $ in Millions3 Months Ended6 Months Ended~~
~~Jun. 30, 2024~~
~~Mar. 31, 2024~~
~~Jul. 02, 2023~~
~~Apr. 02, 2023~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Pay vs Performance Disclosure Net (loss) / income$ (0.5)$ 2.7$ 4.7$ 0.5$ 2.2$ 5.2~~

~~- References~~

~~Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 402 -Subsection v -Paragraph 1~~

~~+ Details~~

~~Name:ecd_PvpTable Namespace Prefix:ecd_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~The portion of profit or loss for the period, net of income taxes, which is attributable to the parent.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 17: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-10Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479105/946-220-45-7Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 31: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 32: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 34: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 37: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1~~

~~+ Details~~

~~Name:us-gaap_NetIncomeLoss Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration XML 81 R28.htm IDEA: XBRL DOCUMENT~~

~~Insider Trading Arrangements3 Months Ended~~
~~Jun. 30, 2024~~
~~Trading Arrangements, by Individual Rule 10b5-1 Arrangement Adoptedfalse Non-Rule 10b5-1 Arrangement Adoptedfalse Rule 10b5-1 Arrangement Terminatedfalse Non-Rule 10b5-1 Arrangement Terminatedfalse~~

~~- References~~

~~Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 408 -Subsection a -Paragraph 1~~

~~+ Details~~

~~Name:ecd_NonRule10b51ArrAdoptedFlag Namespace Prefix:ecd_ Data Type:xbrli:booleanItemType Balance Type:na Period Type:duration~~

~~- References~~

~~Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 408 -Subsection a -Paragraph 1~~

~~+ Details~~
~~Name:ecd_NonRule10b51ArrTrmntdFlag Namespace Prefix:ecd_ Data Type:xbrli:booleanItemType Balance Type:na Period Type:duration~~

~~- References~~

~~Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 408 -Subsection a -Paragraph 1~~

~~+ Details~~
~~Name:ecd_Rule10b51ArrAdoptedFlag Namespace Prefix:ecd_ Data Type:xbrli:booleanItemType Balance Type:na Period Type:duration~~

~~- References~~

~~Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 408 -Subsection a -Paragraph 1~~

~~+ Details~~
~~Name:ecd_Rule10b51ArrTrmntdFlag Namespace Prefix:ecd_ Data Type:xbrli:booleanItemType Balance Type:na Period Type:duration~~

~~- References~~

~~Reference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 408 -Subsection a -Paragraph 2 -Subparagraph A~~

~~+ Details~~
~~Name:ecd_TradingArrByIndTable Namespace Prefix:ecd_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration XML 82 R29.htm IDEA: XBRL DOCUMENT~~
~~Basis of Presentation and Responsibility for interim Financial Statements (Policies)6 Months Ended~~
~~Jun. 30, 2024~~
~~Organization, Consolidation and Presentation of Financial Statements [Abstract] Basis of presentation~~
~~Basis of Presentation and Responsibility for interim Financial Statements~~

~~We prepared the accompanying unaudited condensed consolidated financial statements of Luxfer Holdings PLC and all wholly-owned, majority owned or otherwise controlled subsidiaries on the same basis as our annual audited financial statements. We condensed or omitted certain information and footnote disclosures normally included in our annual audited financial statements, which we prepared in accordance with U.S. Generally Accepted Accounting Principles (GAAP).~~

~~Our quarterly financial statements should be read in conjunction with our Annual Report on Form 10-K for the year ended December 31, 2023. As used in this report, the terms "we," "us," "our," "Luxfer" and "the Company" mean Luxfer Holdings PLC and its subsidiaries, unless the context indicates another meaning.~~

~~In the opinion of management, our financial statements reflect all adjustments, which are only of a normal recurring nature, necessary for the fair statement of financial statements for interim periods in accordance with U.S. GAAP and with the instructions to Form 10-Q in Article 10 of Securities and Exchange Commission (SEC) Regulation S-X.~~

~~The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions about future events that affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities at the date of our financial statements and the reported amounts of revenue and expenses during the reporting periods. Actual results could differ from those estimates, and any such differences may be material to our financial s~~
~~Fiscal year~~
~~Our fiscal year ends on December 31. We report our interim quarterly periods on a 13-week quarter basis, ending on a Sunday. The Second Quarter 2024, ended on June 30, 2024, and the Second Quarter 2023, ended on July 2, 2023.~~
~~Accounting standards issued but not yet effective~~

~~**Accounting standards issued but not yet effective**~~

~~In November 2023, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") 2023-07, Segment Reporting (Topic 280): Improvements to Reportable Segment Disclosures, to improve reportable segment disclosure requirements. The new guidance requires disclosure of significant segment expenses that are regularly provided to the chief operating decision maker and included in the reported measure of segment profit or loss. It does not change the definition of a segment or the guidance for determining reportable segments. The new guidance is effective for the Company in the annual period beginning January 1, 2024 and in 2025 for interim periods. Adoption of this ASU will result in additional disclosure, but it will not impact the Company's consolidated financial position, results of operations or cash flows.~~

~~In December 2023, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") 2023-09, Improvements to Income Tax Disclosures, which enhances the transparency of income tax disclosures in ASC 740, Income Taxes, primarily related to rate reconciliation and income taxes paid information. The ASU is effective for fiscal years beginning after December 15, 2024 and early adoption is permitted. The Company is currently assessing the impact on its Consolidated Condensed Financial Statements and related disclosures.~~

~~- Definition~~

~~Disclosure of accounting policy for basis of accounting, or basis of presentation, used to prepare the financial statements (for example, US Generally Accepted Accounting Principles, Other Comprehensive Basis of Accounting, IFRS).~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:us-gaap_BasisOfAccountingPolicyPolicyTextBlock Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Disclosure of accounting policy for determining an entity's fiscal year or other fiscal period. This disclosure may include identification of the fiscal period end-date, the length of the fiscal period, any reporting period lag between the entity and its subsidiaries, or equity investees. If a reporting lag exists, the closing date of the entity having a different period end is generally noted, along with an explanation of the necessity for using different closing dates. Any intervening events that materially affect the entity's financial position or results of operations are generally also disclosed.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 810 -SubTopic 10 -Section 45 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-12~~

~~+ Details~~
~~Name:us-gaap_FiscalPeriod Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Disclosure of accounting policy pertaining to new accounting pronouncements that may impact the entity's financial reporting. Includes, but is not limited to, quantification of the expected or actual impact.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_NewAccountingPronouncementsPolicyPolicyTextBlock Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type: duration~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_OrganizationConsolidationAndPresentationOfFinancialStatementsAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration XML 83 R30.htm IDEA: XBRL DOCUMENT~~

~~Earnings per share (Tables)6 Months Ended~~
~~Jun. 30, 2024~~
~~Earnings Per Share [Abstract] Schedule of earnings per share~~

~~Basic and diluted earnings per share were calculated as follows:~~

~~Second Quarter Year-to-date In millions except share and per-share data 2024 2023~~

~~2024 2023 Basic (loss) / earnings: Net (loss) / income from continuing operations $(0.4) $4.9 $2.4 $5.4 Net loss from discontinued operations (0.1) (0.2) (0.2) (0.2) Net (loss) / income $(0.5) $4.7 $2.2 $5.2~~
~~Weighted average number of £0.50 ordinary shares: For basic earnings per share 26,831,372 26,923,804 26,826,123 26,922,528 Dilutive effect of potential common stock 100,919 141,534 66,107 161,458 For diluted earnings per share~~

~~26,932,291 27,065,338 26,892,230 27,083,986~~
~~(Loss) / earnings per share using weighted average number of ordinary shares outstanding(1): Basic (loss) / earnings per ordinary share for continuing operations $(0.01) $0.18 $0.09 $0.20 Basic loss per ordinary share for discontinued~~

~~operations (0.01) (0.01) (0.01) (0.01) Basic (loss) / earnings per ordinary share $(0.02) $0.17 $0.08 $0.19 Diluted (loss) / earnings per ordinary share for continuing operations $(0.01) $0.18 $0.09 $0.20 Diluted loss per ordinary share for discontinued operations — (0.01) (0.01) (0.01) Diluted (loss) / earnings per ordinary share $(0.02) $0.17 $0.08 $0.19~~

~~(1) The calculation of earnings per share is performed separately for continuing and discontinued operations. As a result, the sum of the two in any particular period may not equal the earnings-per-share amount in total~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_EarningsPerShareAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Tabular disclosure of an entity's basic and diluted earnings per share calculations, including a reconciliation of numerators and denominators of the basic and diluted per-share computations for income from continuing operations.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1~~

~~+ Details~~

~~Name:us-gaap_ScheduleOfEarningsPerShareBasicAndDilutedTableTextBlock Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type: duration XML 84 R31.htm IDEA: XBRL DOCUMENT~~

~~Net Sales (Tables) 6 Months Ended~~
~~Jun. 30, 2024~~
~~Revenue from Contract with Customer [Abstract] Disaggregation of revenue~~

~~Disaggregated sales disclosures for the second quarter and year-to-date ended June 30, 2024, and July 2, 2023, are included below and in Note 15, Segmental Information.~~

~~Second Quarter 2024 2023 In millions Gas Cylinders Elektron Graphic Arts Total Gas Cylinders Elektron Graphic Arts Total Defense, First Response & Healthcare $24.6 $17.9 $— $42.5 $20.9 $26.8 $— $47.7 Transportation 17.2 11.1 — 28.3 18.6 12.9 — 31.5 General industrial 8.0 13.0 7.9 28.9 9.0 13.3 8.9 31.2 $49.8 $42.0 $ 7.9 $99.7 $48.5 $53.0 $8.9 $110.4~~

~~Year-to-date 2024 2023 In millions Gas Cylinders Elektron Graphic Arts Total Gas Cylinders Elektron Graphic Arts Total Defense, First Response & Healthcare $45.2 $31.8 $— $77.0 $39.0 $50.9 $— $89.9 Transportation 36.3 20.9 — 57.2 32.5 25.7 $— 58.2 General industrial 13.7 27.0 14.2 54.9 18.5 28.8 $16.3 63.6 $95.2 $79.7 $ 14.2 $189.1 $90.0 $105.4 $16.3 $211.7~~

~~- Definition~~

~~Tabular disclosure of disaggregation of revenue into categories depicting how nature, amount, timing, and uncertainty of revenue and cash flows are affected by economic factor.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-5~~

~~+ Details~~

~~Name:us-gaap_DisaggregationOfRevenueTableTextBlock Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_RevenueFromContractWithCustomerAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration XML 85 R32.htm IDEA: XBRL DOCUMENT~~

~~Restructuring (Tables)6 Months Ended~~
~~Jun. 30, 2024~~
~~Restructuring and Related Activities [Abstract] Restructuring and related costs~~

~~Restructuring-related costs by reportable segment were as follows:~~

~~Second Quarter Year-to-date In millions 2024 2023 2024 2023 Severance and~~

~~other costs Gas Cylinders $1.1 $0.2 $1.6 $0.5 Elektron — — 0.2 — $1.1 $0.2 $1.8 $0.5 Asset impairments Gas Cylinders $— $2.3 $— $2.3 Total restructuring charges $1.1 $2.5 $1.8 $2.8 Schedule of restructuring reserve~~
~~Activity related to restructuring, recorded in Other current liabilities in the consolidated balance sheets is summarized as follows:~~

~~In millions 2024 Balance at January 1, $3.3 Costs incurred 1.8 Cash payments and other~~

~~(1.9) Balance at June 30, $3.2~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_RestructuringAndRelatedActivitiesAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Tabular disclosure of costs incurred for restructuring including, but not limited to, exit and disposal activities, remediation, implementation, integration, asset impairment, and charges against earnings from the write-down of assets.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 5.P.3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 420 -SubTopic 10 -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1~~

~~+ Details~~

~~Name:us-gaap_ScheduleOfRestructuringAndRelatedCostsTextBlock Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type: duration~~

~~- Definition~~

~~Tabular disclosure of an entity's restructuring reserve that occurred during the period associated with the exit from or disposal of business activities or restructurings for each major type of cost. This element may also include a description of any reversal and other adjustment made during the period to the amount of an accrued liability for restructuring activities. This element may be used to encapsulate the roll forward presentations of an entity's restructuring reserve by type of cost and in total, and explanation of changes that occurred in the period.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.b.2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 420 -SubTopic 10 -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1~~

~~+ Details~~

~~Name:us-gaap_ScheduleOfRestructuringReserveByTypeOfCostTextBlock Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type: duration XML 86 R33.htm IDEA: XBRL DOCUMENT~~

~~**Acquisition and disposal related costs (Tables)** 6 Months Ended~~
~~**Jun. 30, 2024**~~

~~**Business Combinations [Abstract]**~~ ~~Schedule of Acquisition and Disposal Cost~~

	~~**Second Quarter**~~		~~**Year-to-date**~~	
~~In millions~~	~~**2024**~~	~~**2023**~~	~~**2024**~~	~~**2023**~~
~~Loss on held-for-sale asset group~~	~~**$7.5**~~	~~$—~~	~~**$7.5**~~	~~$—~~
~~Disposal related costs~~	~~**1.7**~~	~~—~~	~~**1.9**~~	~~—~~
	~~**$9.2**~~	~~$—~~	~~**$9.4**~~	~~$—~~

~~Results of discontinued operations in the first six months of 2024 and 2023 were as follows:~~

	~~**Second Quarter**~~		~~**Year-to-date**~~	
~~In millions~~	~~**2024**~~	~~**2023**~~	~~**2024**~~	~~**2023**~~
~~Net sales~~	~~**$1.6**~~	~~$1.9~~	~~**$3.1**~~	~~$4.2~~
~~Cost of goods sold~~	~~**(1.4)**~~	~~(1.7)~~	~~**(2.5)**~~	~~(3.6)~~
~~**Gross profit**~~	~~**0.2**~~	~~0.2~~	~~**0.6**~~	~~0.6~~
~~Selling, general and administrative expenses~~	~~**(0.4)**~~	~~(0.4)~~	~~**(0.8)**~~	~~(0.7)~~
~~Restructuring charge~~	~~**—**~~	~~(0.1)~~	~~**(0.1)**~~	~~(0.2)~~
~~**Operating loss**~~	~~**(0.2)**~~	~~(0.3)~~	~~**(0.3)**~~	~~(0.3)~~
~~Tax credit~~	~~**0.1**~~	~~0.1~~	~~**0.1**~~	~~0.1~~
~~**Net loss**~~	~~**$(0.1)**~~	~~$(0.2)~~	~~**$(0.2)**~~	~~$(0.2)~~

~~The assets and liabilities classified as held-for-sale related to discontinued operations were as follows:~~

~~**Held-for-sale assets**~~	~~**June 30,**~~	~~**December 31,**~~
~~In millions~~	~~**2024**~~	~~**2023**~~
~~Inventory~~	~~**$3.7**~~	~~$3.3~~
~~Accounts and other receivables~~	~~**2.1**~~	~~2.3~~
~~**Current assets**~~	~~**5.8**~~	~~5.6~~
~~Right-of-use-assets~~	~~**1.7**~~	~~2.1~~
~~**Held-for-sale assets**~~	~~**$7.5**~~	~~$7.7~~
~~**Held-for-sale liabilities**~~		
~~Accounts payable~~	~~**$0.7**~~	~~$0.9~~
~~Accrued liabilities~~	~~**0.3**~~	~~0.4~~
~~Other liabilities~~	~~**2.4**~~	~~2.6~~
~~**Held-for-sale liabilities**~~	~~**$3.4**~~	~~$3.9~~

~~The total assets and liabilities classified as held-for-sale, including those that qualify as discontinued operations are as follows:~~

~~**Held-for-sale assets**~~	~~**June 30,**~~	~~**December 31,**~~
~~In millions~~	~~**2024**~~	~~**2023**~~
~~Inventory~~	~~**$12.3**~~	~~$3.3~~
~~Accounts and other receivables~~	~~**8.2**~~	~~2.3~~
~~**Current assets**~~	~~**20.5**~~	~~5.6~~
~~Property, plant and equipment~~	~~**1.2**~~	~~1.2~~
~~Right-of-use-assets~~	~~**1.7**~~	~~2.1~~
~~**Non-current assets**~~	~~**2.9**~~	~~3.3~~
~~**Total held-for-sale assets**~~	~~**$23.4**~~	~~$8.9~~
~~**Held-for-sale liabilities**~~		
~~Accounts payable~~	~~**2.9**~~	~~0.9~~
~~Accrued liabilities~~	~~**2.9**~~	~~0.4~~
~~Other liabilities~~	~~**3.6**~~	~~2.6~~
~~**Held-for-sale liabilities**~~	~~**$9.4**~~	~~$3.9~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_BusinessCombinationsAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Tabular disclosure of information related to a disposal group. Includes, but is not limited to, a discontinued operation, disposal classified as held-for-sale or disposed of by means other than sale or disposal of an individually significant component.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 3 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 3A -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-~~

~~***3AReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4A -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-4AReference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4B -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-4BReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5A -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5AReference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 9: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5D -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5DReference 10: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 11: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3AReference 12: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-1Reference 13: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 205 -SubTopic 20 -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-3***~~

~~+ Details~~

~~Name:us-gaap_ScheduleOfDisposalGroupsIncludingDiscontinuedOperationsIncomeStatementBalanceSheetAndAdditionalDisclosuresTextBlock Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration XML 87 R34.htm IDEA: XBRL DOCUMENT~~

~~**Supplementary balance sheet information (Tables)**~~ ~~**6 Months Ended**~~
~~**Jun. 30, 2024**~~

~~**Organization, Consolidation and Presentation of Financial Statements [Abstract]**~~ ~~**Condensed balance sheet**~~

~~In millions~~	~~**June 30, 2024**~~	~~**December 31, 2023**~~
~~**Accounts and other receivables**~~		
~~Trade receivables~~	~~**$53.7**~~	~~$52.3~~
~~Related parties~~	~~**0.1**~~	~~0.1~~
~~Prepayments and accrued income~~	~~**4.1**~~	~~5.7~~
~~Derivative financial instruments~~	~~**—**~~	~~0.4~~
~~Other receivables~~	~~**3.0**~~	~~1.4~~
~~Total accounts and other receivables~~	~~**$60.9**~~	~~$59.9~~
~~**Inventories**~~		
~~Raw materials and supplies~~	~~**$32.4**~~	~~$34.7~~
~~Work-in-process~~	~~**27.8**~~	~~34.8~~
~~Finished goods~~	~~**28.0**~~	~~26.4~~
~~Total inventories~~	~~**$88.2**~~	~~$95.9~~
~~**Other current assets**~~		
~~Income tax receivable~~	~~**1.5**~~	~~1.5~~
~~Total other current assets~~	~~**$1.5**~~	~~$1.5~~
~~**Property, plant and equipment, net**~~		
~~Land, buildings and leasehold improvements~~	~~**$51.9**~~	~~$51.0~~
~~Machinery and equipment~~	~~**238.4**~~	~~234.9~~
~~Construction in progress~~	~~**11.6**~~	~~13.6~~
~~Total property, plant and equipment~~	~~**301.9**~~	~~299.5~~
~~Accumulated depreciation and impairment~~	~~**(238.8)**~~	~~(235.7)~~
~~Total property, plant and equipment, net~~	~~**$63.1**~~	~~$63.8~~
~~**Current maturities of long-term debt and short-term borrowings**~~		
~~Overdrafts~~	~~**0.2**~~	~~4.6~~
~~Total current maturities of long-term debt and short-term borrowings~~	~~**$0.2**~~	~~$4.6~~
~~**Other current liabilities**~~		
~~Restructuring provision~~	~~**$3.2**~~	~~$3.3~~
~~Short term provision~~	~~**0.1**~~	~~0.1~~
~~Derivative financial instruments~~	~~**0.2**~~	~~—~~
~~**Operating lease liability**~~	~~**4.0**~~	~~4.7~~
~~Advance payments~~	~~**1.9**~~	~~0.8~~
~~Total other current liabilities~~	~~**$9.4**~~	~~$8.9~~
~~**Other non-current liabilities**~~		
~~Contingent liabilities~~	~~**$1.8**~~	~~$1.6~~
~~**Operating lease liability**~~	~~**12.7**~~	~~15.0~~
~~Other non-current liabilities~~	~~**—**~~	~~0.2~~
~~Total other non-current liabilities~~	~~**$14.5**~~	~~$16.8~~

~~- Definition~~

~~Tabular disclosure of condensed balance sheet, including, but not limited to, balance sheets of consolidated entities and consolidation eliminations.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Name Regulation S-X (SX) -Number 210 -Section 12 -Subsection 04 -Paragraph a -Publisher SECReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.12-04(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-3~~

~~+ Details~~

~~Name:srt_ScheduleOfCondensedBalanceSheetTableTextBlock Namespace Prefix:srt_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_OrganizationConsolidationAndPresentationOfFinancialStatementsAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration XML 88 R35.htm IDEA: XBRL DOCUMENT~~

~~**Goodwill and other identifiable intangible assets (Tables)**~~ ~~**6 Months Ended**~~
~~**Jun. 30, 2024**~~

~~**Goodwill and Intangible Assets Disclosure [Abstract]**~~ ~~**Schedule of Goodwill**~~

~~Changes in goodwill during the first half ended June 30, 2024, were as follows:~~

~~In millions~~	~~**Gas Cylinders**~~	~~**Elektron**~~	~~**Total**~~
~~At January 1, 2024~~	~~**$26.2**~~	~~**$41.3**~~	~~**$67.5**~~
~~Exchange difference~~	~~(0.2)~~	~~(0.1)~~	~~(0.3)~~
~~Net balance at June 30, 2024~~	~~**$26.0**~~	~~**$41.2**~~	~~**$67.2**~~

~~**Schedule of Intangible Assets**~~

~~Identifiable intangible assets consisted of the following:~~

~~In millions~~	~~**Customer relationships**~~	~~**Technology and trading related**~~	~~**Total**~~
~~**Cost:**~~	~~-~~	~~-~~	~~-~~
~~At January 1 and June 30, 2024~~	~~**$15.2**~~	~~**$7.8**~~	~~**$23.0**~~
~~**Accumulated amortization:**~~	~~-~~	~~-~~	
~~At January 1, 2024~~	~~$6.6~~	~~$4.4~~	~~**$11.0**~~
~~Charge~~	~~0.2~~	~~0.2~~	~~**0.4**~~
~~At June 30, 2024~~	~~**$6.8**~~	~~**$4.6**~~	~~**$11.4**~~
~~**Net book values:**~~	~~-~~	~~-~~	
~~At January 1, 2024~~	~~$8.6~~	~~$3.4~~	~~**$12.0**~~
~~At June 30, 2024~~	~~**$8.4**~~	~~**$3.2**~~	~~**$11.6**~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_GoodwillAndIntangibleAssetsDisclosureAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Tabular disclosure of assets, excluding financial assets and goodwill, lacking physical substance with a finite life, by either major class or business segment.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2~~

~~+ Details~~

~~Name:us-gaap_ScheduleOfFiniteLivedIntangibleAssetsTableTextBlock Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type: duration~~

~~- Definition~~

~~Tabular disclosure of goodwill by reportable segment and in total which includes a rollforward schedule.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482548/350-20-55-24Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 7: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 9: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 10: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1AReference 12: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-2~~

~~**+ Details**~~

~~**Name:us-gaap_ScheduleOfGoodwillTextBlock** **Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration XML 89 R36.htm**~~

~~**IDEA: XBRL DOCUMENT**~~

~~**Debt (Tables)**~~ ~~**6 Months Ended**~~
~~**Jun. 30, 2024**~~

~~**Debt Disclosure [Abstract]**~~ ~~**Schedule of Debt**~~

~~Debt outstanding was as follows:~~

~~In millions~~	~~**June 30, 2024**~~	~~**December 31, 2023**~~
~~4.94% Loan Notes due 2026~~	~~**$25.0**~~	~~$25.0~~
~~Revolving credit facility~~	~~**49.3**~~	~~43.1~~
~~Bank overdraft~~	~~**0.2**~~	~~4.6~~
~~Unamortized debt issuance costs~~	~~**(0.3)**~~	~~(0.5)~~
~~Total debt~~	~~**74.2**~~	~~72.2~~
~~Less current portion~~	~~**(0.2)**~~	~~(4.6)~~
~~Non-current debt~~	~~**$74.0**~~	~~$67.6~~

~~**- References**~~

~~**No definition available.**~~

~~**+ Details**~~

~~**Name:us-gaap_DebtDisclosureAbstract** **Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration**~~

~~**- Definition**~~

~~**Tabular disclosure of information pertaining to short-term and long-debt instruments or arrangements, including but not limited to identification of terms, features, collateral requirements and other information necessary to a fair presentation.**~~

~~**+ References**~~

~~**No definition available.**~~

~~**+ Details**~~

~~**Name:us-gaap_ScheduleOfDebtTableTextBlock** **Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration XML 90 R37.htm**~~

~~**IDEA: XBRL DOCUMENT**~~

~~**Discontinued Operations (Tables)**~~ ~~**6 Months Ended**~~
~~**Jun. 30, 2024**~~

~~**Discontinued Operations and Disposal Groups [Abstract]**~~ ~~**Schedule of Results of Discontinued Operations**~~

	~~**Second Quarter**~~		~~**Year-to-date**~~	
~~In millions~~	~~**2024**~~	~~**2023**~~	~~**2024**~~	~~**2023**~~
~~Loss on held-for-sale asset group~~	~~**$7.5**~~	~~$—~~	~~**$7.5**~~	~~$—~~
~~Disposal related costs~~	~~**1.7**~~	~~—~~	~~**1.9**~~	~~—~~
	~~**$9.2**~~	~~$—~~	~~**$9.4**~~	~~$—~~

~~Results of discontinued operations in the first six months of 2024 and 2023 were as follows:~~

	~~**Second Quarter**~~		~~**Year-to-date**~~	
~~In millions~~	~~**2024**~~	~~**2023**~~	~~**2024**~~	~~**2023**~~
~~Net sales~~	~~**$1.6**~~	~~$1.9~~	~~**$3.1**~~	~~$4.2~~
~~Cost of goods sold~~	~~**(1.4)**~~	~~(1.7)~~	~~**(2.5)**~~	~~(3.6)~~
~~**Gross profit**~~	~~**0.2**~~	~~0.2~~	~~**0.6**~~	~~0.6~~
~~Selling, general and administrative expenses~~	~~**(0.4)**~~	~~(0.4)~~	~~**(0.8)**~~	~~(0.7)~~
~~Restructuring charge~~	~~**—**~~	~~(0.1)~~	~~**(0.1)**~~	~~(0.2)~~
~~**Operating loss**~~	~~**(0.2)**~~	~~(0.3)~~	~~**(0.3)**~~	~~(0.3)~~
~~Tax credit~~	~~**0.1**~~	~~0.1~~	~~**0.1**~~	~~0.1~~
~~**Net loss**~~	~~**$(0.1)**~~	~~$(0.2)~~	~~**$(0.2)**~~	~~$(0.2)~~

~~The assets and liabilities classified as held-for-sale related to discontinued operations were as follows:~~

~~**Held-for-sale assets**~~	~~**June 30,**~~	~~**December 31,**~~
~~In millions~~	~~**2024**~~	~~**2023**~~
~~Inventory~~	~~**$3.7**~~	~~$3.3~~
~~Accounts and other receivables~~	~~**2.1**~~	~~2.3~~
~~**Current assets**~~	~~**5.8**~~	~~5.6~~
~~Right-of-use-assets~~	~~**1.7**~~	~~2.1~~
~~**Held-for-sale assets**~~	~~**$7.5**~~	~~$7.7~~
~~**Held-for-sale liabilities**~~		
~~Accounts payable~~	~~**$0.7**~~	~~$0.9~~
~~Accrued liabilities~~	~~**0.3**~~	~~0.4~~
~~Other liabilities~~	~~**2.4**~~	~~2.6~~
~~**Held-for-sale liabilities**~~	~~**$3.4**~~	~~$3.9~~

~~The total assets and liabilities classified as held-for-sale, including those that qualify as discontinued operations are as follows:~~

~~**Held-for-sale assets**~~	~~**June 30,**~~	~~**December 31,**~~
~~In millions~~	~~**2024**~~	~~**2023**~~
~~Inventory~~	~~**$12.3**~~	~~$3.3~~
~~Accounts and other receivables~~	~~**8.2**~~	~~2.3~~
~~**Current assets**~~	~~**20.5**~~	~~5.6~~
~~Property, plant and equipment~~	~~**1.2**~~	~~1.2~~
~~Right-of-use-assets~~	~~**1.7**~~	~~2.1~~
~~**Non-current assets**~~	~~**2.9**~~	~~3.3~~
~~**Total held-for-sale assets**~~	~~**$23.4**~~	~~$8.9~~
~~**Held-for-sale liabilities**~~		
~~Accounts payable~~	~~**2.9**~~	~~0.9~~
~~Accrued liabilities~~	~~**2.9**~~	~~0.4~~
~~Other liabilities~~	~~**3.6**~~	~~2.6~~
~~**Held-for-sale liabilities**~~	~~**$9.4**~~	~~$3.9~~

~~**- References**~~

~~**No definition available.**~~

~~**+ Details**~~

~~**Name:us-gaap_DiscontinuedOperationsAndDisposalGroupsAbstract** **Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration**~~

~~**- Definition**~~

~~**Tabular disclosure of information related to a disposal group. Includes, but is not limited to, a discontinued operation, disposal classified as held-for-sale or disposed of by means other than sale or disposal of an individually significant component.**~~

~~**+ References**~~

~~**Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 3 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 3A -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-3AReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4A -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-4AReference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4B -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-4BReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5A -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5AReference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 9: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5D -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5DReference 10: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 11: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3AReference 12: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-1Reference 13: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 205 -SubTopic 20 -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-3**~~

~~**+ Details**~~

~~***Name:us-gaap_ScheduleOfDisposalGroupsIncludingDiscontinuedOperationsIncomeStatementBalanceSheetAndAdditionalDisclosuresTextBlock** **Namespace Prefix:us-gaap_** **Data Type:dtr-types:textBlockItemType** **Balance Type:na** **Period Type:duration** **XML 91 R38.htm IDEA: XBRL DOCUMENT***~~

~~***Held-for-sale assets and liabilities (Tables)*** ***6 Months Ended***~~

~~***Jun. 30, 2024***~~

~~***Discontinued Operations and Disposal Groups [Abstract]*** ***Schedule of Current Held-for-Sale Assets and Liabilities***~~

	~~**Second Quarter**~~		~~**Year-to-date**~~	
~~In millions~~	~~**2024**~~	~~**2023**~~	~~**2024**~~	~~**2023**~~
~~Loss on held-for-sale asset group~~	~~**$7.5**~~	~~$—~~	~~**$7.5**~~	~~$—~~
~~Disposal related costs~~	~~**1.7**~~	~~—~~	~~**1.9**~~	~~—~~
	~~**$9.2**~~	~~$—~~	~~**$9.4**~~	~~$—~~

~~*Results of discontinued operations in the first six months of 2024 and 2023 were as follows:*~~

	~~**Second Quarter**~~		~~**Year-to-date**~~	
~~In millions~~	~~**2024**~~	~~**2023**~~	~~**2024**~~	~~**2023**~~
~~Net sales~~	~~**$1.6**~~	~~$1.9~~	~~**$3.1**~~	~~$4.2~~
~~Cost of goods sold~~	~~**(1.4)**~~	~~(1.7)~~	~~**(2.5)**~~	~~(3.6)~~
~~**Gross profit**~~	~~**0.2**~~	~~0.2~~	~~**0.6**~~	~~0.6~~
~~Selling, general and administrative expenses~~	~~**(0.4)**~~	~~(0.4)~~	~~**(0.8)**~~	~~(0.7)~~
~~Restructuring charge~~	~~**—**~~	~~(0.1)~~	~~**(0.1)**~~	~~(0.2)~~
~~**Operating loss**~~	~~**(0.2)**~~	~~(0.3)~~	~~**(0.3)**~~	~~(0.3)~~
~~Tax credit~~	~~**0.1**~~	~~0.1~~	~~**0.1**~~	~~0.1~~
~~**Net loss**~~	~~**$(0.1)**~~	~~$(0.2)~~	~~**$(0.2)**~~	~~$(0.2)~~

~~*The assets and liabilities classified as held-for-sale related to discontinued operations were as follows:*~~

~~**Held-for-sale assets**~~	~~**June 30,**~~	~~**December 31,**~~
~~In millions~~	~~**2024**~~	~~**2023**~~
~~Inventory~~	~~**$3.7**~~	~~$3.3~~
~~Accounts and other receivables~~	~~**2.1**~~	~~2.3~~
~~**Current assets**~~	~~**5.8**~~	~~5.6~~
~~Right-of-use-assets~~	~~**1.7**~~	~~2.1~~
~~**Held-for-sale assets**~~	~~**$7.5**~~	~~$7.7~~
~~**Held-for-sale liabilities**~~		
~~Accounts payable~~	~~**$0.7**~~	~~$0.9~~
~~Accrued liabilities~~	~~**0.3**~~	~~0.4~~
~~Other liabilities~~	~~**2.4**~~	~~2.6~~
~~**Held-for-sale liabilities**~~	~~**$3.4**~~	~~$3.9~~

~~*The total assets and liabilities classified as held-for-sale, including those that qualify as discontinued operations are as follows:*~~

~~**Held-for-sale assets**~~	~~**June 30,**~~	~~**December 31,**~~
~~In millions~~	~~**2024**~~	~~**2023**~~
~~Inventory~~	~~**$12.3**~~	~~$3.3~~
~~Accounts and other receivables~~	~~**8.2**~~	~~2.3~~
~~**Current assets**~~	~~**20.5**~~	~~5.6~~
~~Property, plant and equipment~~	~~**1.2**~~	~~1.2~~
~~Right-of-use-assets~~	~~**1.7**~~	~~2.1~~
~~**Non-current assets**~~	~~**2.9**~~	~~3.3~~
~~**Total held-for-sale assets**~~	~~**$23.4**~~	~~$8.9~~
~~**Held-for-sale liabilities**~~		
~~Accounts payable~~	~~**2.9**~~	~~0.9~~
~~Accrued liabilities~~	~~**2.9**~~	~~0.4~~
~~Other liabilities~~	~~**3.6**~~	~~2.6~~
~~**Held-for-sale liabilities**~~	~~**$9.4**~~	~~$3.9~~

~~***- References***~~

~~***No definition available.***~~

~~***+ Details***~~

~~***Name:us-gaap_DiscontinuedOperationsAndDisposalGroupsAbstract** **Namespace Prefix:us-gaap_** **Data Type:xbrli:stringItemType** **Balance Type:na** **Period Type:duration***~~

~~***- Definition***~~

~~***Tabular disclosure of information related to a disposal group. Includes, but is not limited to, a discontinued operation, disposal classified as held-for-sale or disposed of by means other than sale or disposal of an individually significant component.***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 3 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 3A -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-3AReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4A -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-4AReference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4B -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-4BReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5A -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5AReference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 9: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5D -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5DReference 10: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 11: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3AReference 12: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-1Reference 13: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 205 -SubTopic 20 -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-3***~~

~~+ Details~~

~~Name:us-gaap_ScheduleOfDisposalGroupsIncludingDiscontinuedOperationsIncomeStatementBalanceSheetAndAdditionalDisclosuresTextBlock Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration XML 92 R39.htm IDEA: XBRL DOCUMENT~~

~~**Share Plans (Tables)**~~ ~~**6 Months Ended**~~
~~**Jun. 30, 2024**~~

~~**Share-Based Payment Arrangement [Abstract]**~~ ~~**Schedule of Share-based Compensation Expense**~~

~~*Total share-based compensation expense for the quarters ended June 30, 2024, and July 2, 2023, was as follows:*~~

	~~**Second Quarter**~~		~~**Year-to-date**~~	
~~In millions~~	~~**2024**~~	~~**2023**~~	~~**2024**~~	~~**2023**~~
~~Total share-based compensation charges~~	~~**$0.8**~~	~~$0.7~~	~~**$1.4**~~	~~$1.3~~

~~**Schedule of Share-based Payment Award, Stock Options, Valuation Assumptions**~~

~~*The following table illustrates the assumptions used in deriving the fair value of share options granted during 2024 and the year-ended December 31, 2023:*~~

	~~**2024**~~	~~**2023**~~
~~Dividend yield (%)~~	~~**3.15 - 3.32**~~	~~**3.15 - 3.32**~~
~~Expected volatility range (%)~~	~~**31.54 - 43.49**~~	~~**31.54 - 43.49**~~
~~Risk-free interest rate (%)~~	~~**3.67 - 5.16**~~	~~**3.67 - 5.16**~~
~~Expected life of share options range (years)~~	~~**1.00 - 4.00**~~	~~**1.00 - 4.00**~~
~~Forfeiture rate (%)~~	~~**5.00**~~	~~**5.00**~~
~~Weighted average exercise price ($)~~	~~**$1.00**~~	~~**$1.00**~~
~~Model used~~	~~**Black-Scholes & Monte-Carlo**~~	~~Black-Scholes & Monte-Carlo~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_DisclosureOfCompensationRelatedCostsSharebasedPaymentsAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Tabular disclosure of allocation of amount expensed and capitalized for award under share-based payment arrangement to statement of income or comprehensive income and statement of financial position. Includes, but is not limited to, corresponding line item in financial statement.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 10 -Section 50 -Paragraph 2 -Subparagraph (h)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2~~

~~+ Details~~

~~Name:us-gaap_ScheduleOfEmployeeServiceShareBasedCompensationAllocationOfRecognizedPeriodCostsTextBlock Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Tabular disclosure of the significant assumptions used during the year to estimate the fair value of stock options, including, but not limited to: (a) expected term of share options and similar instruments, (b) expected volatility of the entity's shares, (c) expected dividends, (d) risk-free rate(s), and (e) discount for post-vesting restrictions.~~

~~+ References~~

~~*Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 718 -SubTopic 10 -Subparagraph (f)(2) -Name Accounting Standards Codification -Paragraph 2 -Section 50 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2*~~

~~*+ Details*~~

~~*Name:us-gaap_ScheduleOfShareBasedPaymentAwardStockOptionsValuationAssumptionsTableTextBlock Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration XML 93 R40.htm IDEA: XBRL DOCUMENT*~~

~~*Shareholders' Equity (Tables)6 Months Ended*~~
~~*Jun. 30, 2024*~~

~~*Equity [Abstract] Schedule of Dividends Paid and Proposed*~~

~~In millions~~	~~Second Quarter 2024~~	~~Second Quarter 2023~~	~~Year-to-date 2024~~	~~Year-to-date 2023~~
~~**Dividends declared and paid / accrued during the year:**~~				
~~Interim dividend declared January 3, 2023 and paid February 1, 2023 ($0.130 per ordinary share)~~	~~**$—**~~	~~$—~~	~~**$—**~~	~~$3.5~~
~~Interim dividend declared April 3, 2023 and paid May 3, 2023 ($0.130 per ordinary share)~~	~~**—**~~	~~3.5~~	~~**—**~~	~~3.5~~
~~Interim dividend declared June 29, 2023 and paid August 2, 2023 ($0.130 per ordinary share)~~	~~**—**~~	~~3.5~~	~~**—**~~	~~3.5~~
~~Interim dividend declared January 19, 2024 and paid February 7, 2024 ($0.130 per ordinary share)~~	~~**—**~~	~~—~~	~~**3.5**~~	~~—~~
~~Interim dividend declared April 9, 2024 and paid May 8, 2024 ($0.130 per ordinary share)~~	~~**3.5**~~	~~—~~	~~**3.5**~~	~~—~~
	~~**$3.5**~~	~~$7.0~~	~~**$7.0**~~	~~$10.5~~

~~In millions~~	~~2024~~	~~2023~~
~~**Dividends declared and paid after the quarter end (not recognized as a liability at the quarter end):**~~		
~~Interim dividend declared July 8, 2024 and paid August 7, 2024 ($0.130 per ordinary share)~~	~~**$3.5**~~	~~$—~~
	~~**$3.5**~~	~~$—~~

~~*- Definition*~~

~~*Tabular disclosure of information related to dividends declared, including paid and unpaid dividends.*~~

~~*+ References*~~

~~*No definition available.*~~

~~*+ Details*~~

~~*Name:us-gaap_DividendsDeclaredTableTextBlock Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration*~~

~~*- References*~~

~~*No definition available.*~~

~~*+ Details*~~

~~*Name:us-gaap_EquityAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration XML 94 R41.htm IDEA: XBRL DOCUMENT*~~

~~*Segmental Information (Tables)6 Months Ended*~~
~~*Jun. 30, 2024*~~

~~*Segment Reporting [Abstract] Schedule of Segment Reporting Information, by Segment*~~

~~*Financial information by reportable segment for the Second Quarter and first half ended June 30, 2024, and July 2, 2023, is included in the following summary:*~~

~~In millions~~	~~Net sales Second Quarter 2024~~	~~Net sales Second Quarter 2023~~	~~Net sales Year-to-date 2024~~	~~Net sales Year-to-date 2023~~	~~Adjusted EBITDA Second Quarter 2024~~	~~Adjusted EBITDA Second Quarter 2023~~	~~Adjusted EBITDA Year-to-date 2024~~	~~Adjusted EBITDA Year-to-date 2023~~
~~Gas Cylinders segment~~	~~**$49.8**~~	~~$48.5~~	~~**$95.2**~~	~~$90.0~~	~~**$4.9**~~	~~$4.9~~	~~**$9.0**~~	~~$7.4~~
~~Elektron segment~~	~~**42.0**~~	~~53.0~~	~~**79.7**~~	~~105.4~~	~~**12.4**~~	~~9.5~~	~~**18.8**~~	~~19.0~~
~~Graphic Arts segment~~	~~**7.9**~~	~~8.9~~	~~**14.2**~~	~~16.3~~	~~**0.1**~~	~~—~~	~~**(1.6)**~~	~~(0.7)~~
~~Consolidated~~	~~**$99.7**~~	~~$110.4~~	~~**$189.1**~~	~~$211.7~~	~~**$17.4**~~	~~$14.4~~	~~**$26.2**~~	~~$25.7~~

~~*(1) Adjusted EBITA is adjusted EBITDA less depreciation and loss on disposal of property, plant and equipment.*~~

~~***15. Segmental Information (continued)***~~

~~In millions~~	~~Depreciation and amortization Second Quarter 2024~~	~~Depreciation and amortization Second Quarter 2023~~	~~Depreciation and amortization Year-to-date 2024~~	~~Depreciation and amortization Year-to-date 2023~~	~~Restructuring charges Second Quarter 2024~~	~~Restructuring charges Second Quarter 2023~~	~~Restructuring charges Year-to-date 2024~~	~~Restructuring charges Year-to-date 2023~~
~~Gas Cylinders segment~~	~~**$0.9**~~	~~$1.0~~	~~**$1.7**~~	~~$2.1~~	~~**$1.1**~~	~~$2.5~~	~~**$1.6**~~	~~$2.8~~
~~Elektron segment~~	~~**1.6**~~	~~1.8~~	~~**3.2**~~	~~3.5~~	~~**—**~~	~~—~~	~~**0.2**~~	~~—~~
~~Graphic Arts segment~~	~~**—**~~	~~0.5~~	~~**—**~~	~~1.0~~	~~**—**~~	~~—~~	~~**—**~~	~~—~~
~~Consolidated~~	~~**$2.5**~~	~~$3.3~~	~~**$4.9**~~	~~$6.6~~	~~**$1.1**~~	~~$2.5~~	~~**$1.8**~~	~~$2.8~~

~~In millions~~	~~Total assets June 30, 2024~~	~~Total assets December 31, 2023~~	~~Capital expenditures Second Quarter 2024~~	~~Capital expenditures Second Quarter 2023~~	~~Capital expenditures Year-to-date 2024~~	~~Capital expenditures Year-to-date 2023~~
~~Gas Cylinders segment~~	~~**$136.7**~~	~~$131.0~~	~~**$1.3**~~	~~$0.3~~	~~**$2.1**~~	~~$0.6~~
~~Elektron segment~~	~~**167.7**~~	~~162.4~~	~~**1.4**~~	~~2.3~~	~~**2.1**~~	~~3.9~~
~~Graphic Arts segment~~	~~**14.7**~~	~~19.6~~	~~**0.1**~~	~~0.4~~	~~**0.1**~~	~~0.5~~
~~Other~~	~~**53.2**~~	~~51.3~~	~~**—**~~	~~—~~	~~**—**~~	~~—~~
~~Discontinued operations~~	~~**7.5**~~	~~7.8~~	~~**—**~~	~~0.2~~	~~**—**~~	~~0.1~~
~~Consolidated~~	~~**$379.8**~~	~~$372.1~~	~~**$2.8**~~	~~$3.2~~	~~**$4.3**~~	~~$5.1~~

~~*Property, Plant and Equipment, Net by Geographic Region*~~

~~In millions~~	~~Property, plant and equipment, net June 30, 2024~~	~~Property, plant and equipment, net December 31, 2023~~
~~U.S.~~	~~**$26.8**~~	~~$26.8~~
~~United Kingdom~~	~~**32.0**~~	~~32.8~~
~~Canada~~	~~**3.0**~~	~~2.9~~
~~Rest of Europe~~	~~**1.0**~~	~~1.0~~
~~Asia Pacific~~	~~**0.3**~~	~~0.3~~
	~~**$63.1**~~	~~$63.8~~

~~*Reconciliation of Operating Profit (Loss) from Segments to Consolidated*~~

~~*The following table presents a reconciliation of Adjusted EBITDA to net income before income taxes, from continuing operations:*~~

~~In millions~~	~~Second Quarter 2024~~	~~Second Quarter 2023~~	~~Year-to-date 2024~~	~~Year-to-date 2023~~
~~Adjusted EBITDA~~	~~**$17.4**~~	~~$14.4~~	~~**$26.2**~~	~~$25.7~~
~~Other share-based compensation charges~~	~~**(0.8)**~~	~~(0.7)~~	~~**(1.4)**~~	~~(1.3)~~
~~Depreciation and amortization~~	~~**(2.5)**~~	~~(3.3)~~	~~**(4.9)**~~	~~(6.6)~~
~~Restructuring charges~~	~~**(1.1)**~~	~~(2.5)~~	~~**(1.8)**~~	~~(2.8)~~
~~Acquisition and disposal related costs~~	~~**(9.2)**~~	~~—~~	~~**(9.4)**~~	~~—~~
~~Defined benefits pension credit / (charge)~~	~~**0.2**~~	~~0.6~~	~~**0.5**~~	~~(8.3)~~
~~Interest expense, net~~	~~**(1.3)**~~	~~(1.8)~~	~~**(2.7)**~~	~~(3.1)~~
~~Net income before income taxes from continuing operations~~	~~**$2.7**~~	~~$6.7~~	~~**$6.5**~~	~~$3.6~~

~~*Revenue from External Customers and Long-term Assets by Geographic Areas*~~

~~*The following tables present certain geographic information by geographic region for the Second Quarter ended June 30, 2024, and July 2, 2023:*~~

~~Net Sales(1)~~	~~Second Quarter 2024 $M~~	~~Second Quarter 2024 Percent~~	~~Second Quarter 2023 $M~~	~~Second Quarter 2023 Percent~~	~~Year-to-date 2024 $M~~	~~Year-to-date 2024 Percent~~	~~Year-to-date 2023 $M~~	~~Year-to-date 2023 Percent~~
~~United States~~	~~**$57.3**~~	~~**57.6 %**~~	~~$67.8~~	~~61.5 %~~	~~**$110.5**~~	~~**58.4 %**~~	~~$125.5~~	~~59.3 %~~
~~Germany~~	~~**7.2**~~	~~**7.2 %**~~	~~3.8~~	~~3.4 %~~	~~**12.6**~~	~~**6.7 %**~~	~~10.1~~	~~4.8 %~~
~~United Kingdom~~	~~**6.3**~~	~~**6.3 %**~~	~~5.2~~	~~4.7 %~~	~~**10.6**~~	~~**5.6 %**~~	~~10.8~~	~~5.1 %~~
~~Japan~~	~~**5.0**~~	~~**5.0 %**~~	~~6.3~~	~~5.7 %~~	~~**9.0**~~	~~**4.8 %**~~	~~10.8~~	~~5.1 %~~
~~Canada~~	~~**2.8**~~	~~**2.8 %**~~	~~3.4~~	~~3.1 %~~	~~**6.5**~~	~~**3.4 %**~~	~~5.2~~	~~2.5 %~~
~~**Top five countries**~~	~~**78.6**~~	~~**78.9 %**~~	~~86.5~~	~~78.4 %~~	~~**149.2**~~	~~**78.9 %**~~	~~162.4~~	~~76.7 %~~
~~Rest of Europe~~	~~**12.3**~~	~~**12.3 %**~~	~~11.7~~	~~10.6 %~~	~~**24.4**~~	~~**13.0 %**~~	~~24.7~~	~~11.7 %~~
~~Asia Pacific~~	~~**6.7**~~	~~**6.7 %**~~	~~8.3~~	~~7.5 %~~	~~**10.3**~~	~~**5.4 %**~~	~~17.3~~	~~8.2 %~~
~~Other(2)~~	~~**2.1**~~	~~**2.1 %**~~	~~3.9~~	~~3.5 %~~	~~**5.2**~~	~~**2.7 %**~~	~~7.3~~	~~3.4 %~~
	~~**$99.7**~~		~~$110.4~~		~~**$189.1**~~		~~$211.7~~	

~~*(1) Net sales are based on the geographic destination of sale.*~~

~~*(2) Other includes South America, Latin America and Africa.*~~

~~*- Definition*~~

~~*Tabular disclosure of long-lived assets, excluding financial instruments, long-term customer relationships of a financial institution, mortgage rights, deferred policy acquisition costs, and deferred tax assets, by geographic areas located in the entity's country of domicile and foreign countries in which the entity holds assets.*~~

~~*+ References*~~

~~*Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-41*~~

~~*+ Details*~~

~~*Name:us-gaap_LongLivedAssetsByGeographicAreasTableTextBlock Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration*~~

~~*- Definition*~~

~~*Tabular disclosure of the reconciliation of profit (loss) from reportable segments to the consolidated income (loss) before income tax expense (benefit) and discontinued operations. Includes, but is not limited to, reconciliation after income tax if income tax is allocated to the reportable segment.*~~

~~*+ References*~~

~~*Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 280 -SubTopic 10 -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-31Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 280 -SubTopic 10 -Section 50 -Paragraph 30 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30*~~

~~+ Details~~

~~Name:us-gaap_ReconciliationOfOperatingProfitLossFromSegmentsToConsolidatedTextBlock Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Tabular disclosure of information concerning material long-lived assets (excluding financial instruments, customer relationships with financial institutions, mortgage and other servicing rights, deferred policy acquisition costs, and deferred taxes assets) located in identified geographic areas and/or the amount of revenue from external customers attributed to that country from which revenue is material. An entity may also provide subtotals of geographic information about groups of countries.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 280 -SubTopic 10 -Section 50 -Paragraph 41 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-41~~

~~+ Details~~

~~Name:us-gaap_ScheduleOfRevenuesFromExternalCustomersAndLongLivedAssetsByGeographicalAreasTableTextBlock Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Tabular disclosure of the profit or loss and total assets for each reportable segment. An entity discloses certain information on each reportable segment if the amounts (a) are included in the measure of segment profit or loss reviewed by the chief operating decision maker or (b) are otherwise regularly provided to the chief operating decision maker, even if not included in that measure of segment profit or loss.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 280 -SubTopic 10 -Section 50 -Paragraph 25 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-25Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 280 -SubTopic 10 -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 280 -SubTopic 10 -Section 50 -Paragraph 30 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30~~

~~+ Details~~

~~Name:us-gaap_ScheduleOfSegmentReportingInformationBySegmentTextBlock Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_SegmentReportingAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration XML 95 R42.htm IDEA: XBRL DOCUMENT~~

~~Commitments and Contingencies (Tables)6 Months Ended~~
~~Jun. 30, 2024~~
~~Commitments and Contingencies Disclosure [Abstract] Schedule of Uncommitted Facilities~~

~~Uncommitted Facilities~~	~~June 30, 2024~~		~~December 31, 2023~~	
	~~Facility~~	~~Drawn~~	~~Facility~~	~~Drawn~~
~~Bond and Guarantees~~	~~$0.6~~	~~$0.1~~	~~$0.6~~	~~$0.2~~
~~Letters of Credit~~	~~$4.0~~	~~$2.2~~	~~$4.0~~	~~$2.2~~
~~Overdraft~~	~~$7.8~~	~~$0.2~~	~~$7.8~~	~~$4.6~~
	~~$12.4~~	~~$2.5~~	~~$12.4~~	~~$7.0~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_CommitmentsAndContingenciesDisclosureAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~The entire disclosure for significant arrangements with third parties, which includes operating lease arrangements and arrangements in which the entity has agreed to expend funds to procure goods or services, or has agreed to commit resources to supply goods or services, and operating lease arrangements. Descriptions may include identification of the specific goods and services, period of time covered, minimum quantities and amounts, and cancellation rights.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 440 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/440/tableOfContent~~

~~+ Details~~

~~Name:us-gaap_CommitmentsDisclosureTextBlock Namespace Prefix:us-gaap_ Data Type:dtr-types:textBlockItemType Balance Type:na Period Type:duration XML 96 R43.htm~~

~~IDEA: XBRL DOCUMENT~~

~~Earnings per share (Details) $ / shares in Units, $ in Millions 3 Months Ended 6 Months Ended~~
~~Jun. 30, 2024~~
~~USD ($)~~
~~$ / shares~~
~~shares~~
~~Mar. 31, 2024~~
~~USD ($)~~
~~Jul. 02, 2023~~
~~USD ($)~~
~~$ / shares~~
~~shares~~
~~Apr. 02, 2023~~
~~USD ($)~~
~~Jun. 30, 2024~~
~~USD ($)~~
~~$ / shares~~
~~shares~~
~~Jul. 02, 2023~~
~~USD ($)~~
~~$ / shares~~
~~shares~~
~~Jun. 30, 2024~~
~~£ / shares~~
~~Dec. 31, 2023~~
~~£ / shares~~
~~Jul. 02, 2023~~
~~£ / shares~~

~~Basic (loss) / earnings: Net (loss) / income from continuing operations | $ $ (0.4) $ 4.9 $ 2.4$ 5.4 Net loss from discontinued operations | $ (0.1) (0.2) (0.2)(0.2) Net (loss) / income | $ $ (0.5)$ 2.7$ 4.7$ 0.5$ 2.2$ 5.2 Common stock, par value (in GBP per share) | £ / shares £ 0.50£ 0.50 Weighted average number of £0.50 ordinary shares: For basic earnings per share (in shares) | shares 26,831,372 26,923,804 26,826,12326,922,528 Dilutive effect of potential common stock (in shares) | shares 100,919 141,534 66,107161,458 For diluted earnings per share (in shares) | shares 26,932,291 27,065,338 26,892,23027,083,986 (Loss) / earnings per share using weighted average number of ordinary shares outstanding Basic (loss) / earnings per ordinary share for continuing operations (usd per share)[1] $ (0.01) $ 0.18 $ 0.09$ 0.20 Basic earnings /(loss) per ordinary share for discontinued operations (usd per share)[1],[2] (0.01) (0.01) (0.01)(0.01) Basic (usd per share)[1] (0.02) 0.17 0.080.19 Diluted (loss) / earnings per ordinary share for continuing operations (usd per share)[1] (0.01) 0.18 0.090.20 Diluted earnings / (loss) per ordinary share for discontinued operations (usd per share)[1],[2] 0 (0.01) (0.01)(0.01) Diluted (usd per share)[1] $ (0.02) $ 0.17 $ 0.08$ 0.19 Ordinary shares Basic (loss) / earnings: Common stock, par value (in GBP per share) | £ / shares £ 0.50 £ 0.50~~

~~[1] The calculation of earnings per share is performed separately for continuing and discontinued operations. As a result, the sum of the two in any particular period may not equal the earnings-per-share amount in total.~~

~~[2] The loss per share for discontinued operations has not been diluted, since the incremental shares included in the weighted-average number of shares outstanding would have been anti-dilutive.~~

~~- Definition~~

~~Face amount or stated value per share of common stock.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1~~

~~+ Details~~

~~Name:us-gaap_CommonStockParOrStatedValuePerShare Namespace Prefix:us-gaap_ Data Type:dtr-types:perShareItemType Balance Type:na Period Type:instant~~

~~- Definition~~

~~The amount of net income (loss) for the period per each share of common stock or unit outstanding during the reporting period.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 52 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-52Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-15Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (e)(4) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-7Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-2Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-10Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7~~

~~***+ Details***~~

~~***Name:us-gaap_EarningsPerShareBasic Namespace Prefix:us-gaap_ Data Type:dtr-types:perShareItemType Balance Type:na Period Type:duration***~~

~~***- References***~~

~~***No definition available.***~~

~~***+ Details***~~

~~***Name:us-gaap_EarningsPerShareBasicTwoClassMethodAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration***~~

~~***- Definition***~~

~~***The amount of net income (loss) for the period available to each share of common stock or common unit outstanding during the reporting period and to each share or unit that would have been outstanding assuming the issuance of common shares or units for all dilutive potential common shares or units outstanding during the reporting period.***~~

~~***+ References***~~

~~***Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 52 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-52Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-15Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (e)(4) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-7Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-2Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -***~~

~~***Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7***~~

~~***+ Details***~~

~~***Name:us-gaap_EarningsPerShareDiluted Namespace Prefix:us-gaap_ Data Type:dtr-types:perShareItemType Balance Type:na Period Type:duration***~~

~~***- Definition***~~

~~***Amount after tax of income (loss) from continuing operations attributable to the parent.***~~

~~***+ References***~~

~~***Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(13)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 10: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 11: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 810 -SubTopic 10 -Section 45 -Paragraph 18 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-18***~~

~~***+ Details***~~

~~***Name:us-gaap_IncomeLossFromContinuingOperations Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration***~~

~~***- Definition***~~

~~***The amount of net income (loss) from continuing operations per each share of common stock or unit outstanding during the reporting period.***~~

~~***+ References***~~

~~***Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(13)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-2Reference 11: http://www.xbrl.org/2003/role/disclosureRef -***~~

~~***Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 13: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7Reference 17: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1***~~

~~+ Details~~

~~Name:us-gaap_IncomeLossFromContinuingOperationsPerBasicShare Namespace Prefix:us-gaap_ Data Type:dtr-types:perShareItemType Balance Type:na Period Type: duration~~

~~- Definition~~

~~The amount of net income (loss) derived from continuing operations during the period available to each share of common stock or common unit outstanding during the reporting period and to each share or unit that would have been outstanding assuming the issuance of common shares or units for all dilutive potential common shares or units outstanding during the reporting period.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(13)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-2Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 12: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7~~

~~***+ Details***~~

~~***Name:us-gaap_IncomeLossFromContinuingOperationsPerDilutedShare Namespace Prefix:us-gaap_ Data Type:dtr-types:perShareItemType Balance Type:na Period Type: duration***~~

~~***- Definition***~~

~~***Amount after tax of income (loss) from a discontinued operation attributable to the parent. Includes, but is not limited to, the income (loss) from operations during the phase-out period, gain (loss) on disposal, gain (loss) for reversal of write-down (write-down) to fair value, less cost to sell, and adjustments to a prior period gain (loss) on disposal.***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 19 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-19Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3A -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3AReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3B -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3BReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-4Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-1Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3***~~

~~+ Details~~

~~Name:us-gaap_IncomeLossFromDiscontinuedOperationsNetOfTaxAttributableToReportingEntity Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type: credit Period Type:duration~~

~~- Definition~~

~~Per basic share amount, after tax, of income (loss) from the day-to-day business activities of the discontinued operation and gain (loss) from the disposal of the discontinued operation.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(14)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2~~

~~+ Details~~

~~Name:us-gaap_IncomeLossFromDiscontinuedOperationsNetOfTaxPerBasicShare Namespace Prefix:us-gaap_ Data Type:dtr-types:perShareItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Per diluted share amount, after tax, of income (loss) from the day-to-day business activities of the discontinued operation and gain (loss) from the disposal of the discontinued operation.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI~~

~~https://asc.fasb.org/1943274/2147482689/260-10-45-7Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 5 -Subparagraph (SAB Topic 5.E) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479836/810-10-S99-5~~

~~+ Details~~

~~Name:us-gaap_IncomeLossFromDiscontinuedOperationsNetOfTaxPerDilutedShare Namespace Prefix:us-gaap_ Data Type:dtr-types:perShareItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~The portion of profit or loss for the period, net of income taxes, which is attributable to the parent.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name 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Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 17: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-10Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479105/946-220-45-7Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 31: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 32: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 34: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 37: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1~~

~~+ Details~~
~~Name:us-gaap_NetIncomeLoss Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- References~~

~~No definition available.~~

~~+ Details~~
~~Name:us-gaap_NetIncomeLossAvailableToCommonStockholdersBasicAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type: duration~~

~~- Definition~~

~~The sum of dilutive potential common shares or units used in the calculation of the diluted per-share or per-unit computation.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1~~

~~+ Details~~
~~Name:us-gaap_WeightedAverageNumberDilutedSharesOutstandingAdjustment Namespace Prefix:us-gaap_ Data Type:xbrli:sharesItemType Balance Type:na Period Type: duration~~

~~- Definition~~

~~The average number of shares or units issued and outstanding that are used in calculating diluted EPS or earnings per unit (EPU), determined based on the timing of issuance of shares or units in the period.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 16 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-16~~

~~+ Details~~
~~Name:us-gaap_WeightedAverageNumberOfDilutedSharesOutstanding Namespace Prefix:us-gaap_ Data Type:xbrli:sharesItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Number of [basic] shares or units, after adjustment for contingently issuable shares or units and other shares or units not deemed outstanding, determined by relating the portion of time within a reporting period that common shares or units have been outstanding to the total time in that period.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-10~~

~~+ Details~~
~~Name:us-gaap_WeightedAverageNumberOfSharesOutstandingBasic Namespace Prefix:us-gaap_ Data Type:xbrli:sharesItemType Balance Type:na Period Type:duration~~

~~- References~~

~~No definition available.~~

~~+ Details~~
~~Name:us-gaap_WeightedAverageNumberOfSharesOutstandingDilutedDisclosureItemsAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na~~

~~Period Type:duration~~

~~- Details~~

~~Name:us-gaap_StatementClassOfStockAxis=lxfr_OrdinarySharesMember Namespace Prefix: Data Type:na Balance Type: Period Type: XML 97 R44.htm IDEA: XBRL DOCUMENT~~

~~Net Sales (Details) - USD ($) $ in Millions3 Months Ended6 Months Ended~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Disaggregation of Revenue [Line Items] Net sales$ 99.7$ 110.4$ 189.1$ 211.7Defense, First Response & Healthcare Disaggregation of Revenue [Line Items] Net sales 42.547.777.089.9Transportation Disaggregation of Revenue [Line Items] Net sales28.331.557.258.2General industrial Disaggregation of Revenue [Line Items] Net sales28.931.254.963.6Gas Cylinders Disaggregation of Revenue [Line Items] Net sales49.848.595.290.0Gas Cylinders | Defense, First Response & Healthcare Disaggregation of Revenue [Line Items] Net sales24.620.945.239.0Gas Cylinders | Transportation Disaggregation of Revenue [Line Items] Net sales17.218.636.332.5Gas Cylinders | General industrial Disaggregation of Revenue [Line Items] Net sales8.09.013.718.5Elektron Disaggregation of Revenue [Line Items] Net sales42.053.079.7 105.4Elektron | Defense, First Response & Healthcare Disaggregation of Revenue [Line Items] Net sales17.926.831.850.9Elektron | Transportation Disaggregation of Revenue [Line Items] Net sales11.112.920.925.7Elektron | General industrial Disaggregation of Revenue [Line Items] Net sales13.013.327.028.8Graphic Arts Disaggregation of Revenue [Line Items] Net sales7.98.914.216.3Graphic Arts | Defense, First Response & Healthcare Disaggregation of Revenue [Line Items] Net sales 7.98.914.216.3Graphic Arts | Transportation Disaggregation of Revenue [Line Items] Net sales0.00.00.00.0Graphic Arts | General industrial Disaggregation of Revenue [Line Items] Net sales$ 0.0$ 0.0$ 0.0$ 0.0~~

~~- Definition~~

~~Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-5Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 6: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 8: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91~~

~~+ Details~~

~~Name:us-gaap_DisaggregationOfRevenueLineItems Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Amount, excluding tax collected from customer, of revenue from satisfaction of performance obligation by transferring promised good or service to customer. Tax collected from customer is tax assessed by governmental authority that is both imposed on and concurrent with specific revenue-producing transaction, including, but not limited to, sales, use, value added and excise.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-41Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 4: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 5: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 924 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 11.L) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479941/924-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-5Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-42Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-40Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-4~~

~~+ Details~~

~~Name:us-gaap_RevenueFromContractWithCustomerExcludingAssessedTax Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type: duration~~

~~- Details~~

~~Name:srt_ProductOrServiceAxis=lxfr_DefenseFirstResponseAndHealthcareMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~

~~- Details~~

~~Name:srt_ProductOrServiceAxis=lxfr_TransportationMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~

~~- Details~~

~~Name:srt_ProductOrServiceAxis=lxfr_GeneralIndustrialMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~

~~- Details~~

~~Name:us-gaap_StatementBusinessSegmentsAxis=lxfr_GasCylindersSegmentMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~

~~- Details~~

~~Name:us-gaap_StatementBusinessSegmentsAxis=lxfr_ElektronSegmentMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~

~~- Details~~

~~Name:us-gaap_StatementBusinessSegmentsAxis=lxfr_GraphicArtsMember Namespace Prefix: Data Type:na Balance Type: Period Type: XML 98 R45.htm IDEA: XBRL DOCUMENT~~

~~Restructuring - Additional Information (Details) - USD ($) $ in Millions3 Months Ended6 Months Ended~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Apr. 02, 2023~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Restructuring Cost and Reserve [Line Items] Restructuring charges$ 1.1$ 2.5 $ 1.8$ 2.8Other restructuring costs 0.1$ 0.4 North America | Gas Cylinders Restructuring Cost and Reserve [Line Items] Restructuring charges $ 2.3$ 2.3~~

~~- Definition~~

~~Amount of other expenses associated with exit or disposal activities pursuant to an authorized plan. Excludes expenses associated with a discontinued operation or an asset retirement obligation.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28~~

~~+ Details~~

~~Name:us-gaap_OtherRestructuringCosts Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.b.1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.b.2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting~~

~~Standards Codification -Section 50 -Paragraph 1 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1~~

~~+ Details~~
~~Name:us-gaap_RestructuringCostAndReserveLineItems Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Amount of restructuring charges, remediation cost, and asset impairment loss.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2~~

~~+ Details~~
~~Name:us-gaap_RestructuringSettlementAndImpairmentProvisions Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Details~~
~~Name:srt_StatementGeographicalAxis=srt_NorthAmericaMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~
~~- Details~~
~~Name:us-gaap_StatementBusinessSegmentsAxis=lxfr_GasCylindersSegmentMember Namespace Prefix: Data Type:na Balance Type: Period Type: XML 99 R46.htm IDEA: XBRL DOCUMENT~~
~~Restructuring - Schedule of Restructuring Related Costs (Details) - USD ($) $ in Millions3 Months Ended6 Months Ended~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Restructuring Cost and Reserve [Line Items] Severance and other costs$ 1.1$ 0.2$ 1.8$ 0.5Total restructuring charges1.12.51.82.8Gas Cylinders Restructuring Cost and Reserve [Line Items] Severance and other costs1.10.21.60.5Asset impairments0.02.30.02.3Elektron Restructuring Cost and Reserve [Line Items] Severance and other costs$ 0.0$ 0.0$ 0.2$ 0.0~~
~~- Definition~~

~~Amount of write-down of assets recognized in the income statement. Includes, but is not limited to, losses from tangible assets, intangible assets and goodwill.~~

~~+ References~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 360 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-4***~~

~~***+ Details***~~

~~***Name:us-gaap_AssetImpairmentCharges***~~ ~~***Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration***~~

~~***- Definition***~~

~~***Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table.***~~

~~***+ References***~~

~~***Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.b.1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.b.2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1***~~

~~***+ Details***~~

~~Name:us-gaap_RestructuringCostAndReserveLineItems Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Amount of restructuring charges, remediation cost, and asset impairment loss.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2~~

~~+ Details~~

~~Name:us-gaap_RestructuringSettlementAndImpairmentProvisions Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Amount of expenses for special or contractual termination benefits provided to current employees involuntarily terminated under a benefit arrangement associated exit or disposal activities pursuant to an authorized plan. Excludes expenses related to one-time termination benefits, a discontinued operation or an asset retirement obligation.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28~~

~~+ Details~~

~~Name:us-gaap_SeveranceCosts1 Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Details~~

~~Name:us-gaap_StatementBusinessSegmentsAxis=lxfr_GasCylindersSegmentMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~

~~- Details~~

~~Name:us-gaap_StatementBusinessSegmentsAxis=lxfr_ElektronSegmentMember Namespace Prefix: Data Type:na Balance Type: Period Type: XML 100 R47.htm IDEA: XBRL DOCUMENT~~

~~Restructuring - Schedule of Restructuring Reserve (Details) $ in Millions~~	~~6 Months Ended Jun. 30, 2024 USD ($)~~
~~Restructuring Reserve [Roll Forward]~~	
~~Beginning balance~~	~~$ 3.3~~
~~Costs incurred~~	~~1.8~~
~~Cash payments and other~~	~~(1.9)~~
~~Ending balance~~	~~$ 3.2~~

~~- Definition~~

~~Amount of cash payments made as the result of exit or disposal activities. Excludes payments associated with a discontinued operation or an asset retirement obligation.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 17 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-17~~

~~+ Details~~

~~Name:us-gaap_PaymentsForRestructuring Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Definition~~

~~Discloses the amount charged against the accrued restructuring reserves, or earnings if not previously accrued, during the period for the specified type of restructuring cost.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.b.1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1~~

~~+ Details~~

~~Name:us-gaap_RestructuringAndRelatedCostIncurredCost Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Carrying amount as of the balance sheet date of known and estimated obligations associated with exit from or disposal of business activities or restructurings pursuant to a duly authorized plan, which are expected to be paid in the next twelve months or in the normal operating cycle if longer. Costs of such activities include those for one-time termination benefits, termination of an operating lease or other contract, consolidating or closing facilities, relocating employees, and costs associated with an ongoing benefit arrangement, but excludes costs associated with the retirement of a long-lived asset.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.b.2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1~~

~~+ Details~~

~~Name:us-gaap_RestructuringReserveCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- Definition~~

~~A roll forward is a reconciliation of a concept from the beginning of a period to the end of a period.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_RestructuringReserveRollForward Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration XML 101 R48.htm IDEA: XBRL DOCUMENT~~

~~Other Income (Details) - USD ($) $ in Millions1 Months Ended3 Months Ended6 Months Ended~~
~~Jul. 31, 2024~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Accumulated Other Comprehensive Income (Loss) [Line Items] Other income $ 5.1$ 0.0$ 5.3$ 0.0Insurance recoveries $ 4.5 Subsequent event Accumulated Other Comprehensive Income (Loss) [Line Items] Insurance recoveries$ 0.8~~

~~- Definition~~

~~Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-4Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-5Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481674/830-30-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 17 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-17Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 20 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-20Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 20 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-20Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 20 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-20Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 20 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-20~~

~~*+ Details*~~
~~*Name:us-gaap_AccumulatedOtherComprehensiveIncomeLossLineItems Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration*~~

~~*- Definition*~~

~~*The amount recovered from insurance. These recoveries reduce costs and losses that are reported as a separate line item under operating expenses.*~~

~~*+ References*~~

~~*Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2*~~

~~*+ Details*~~
~~*Name:us-gaap_InsuranceRecoveries Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration*~~

~~*- Definition*~~

~~*Amount of revenue earned, classified as other, excluding interest income.*~~

~~*+ References*~~

~~*Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(13)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(1)(e)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2*~~

~~+ Details~~
~~Name:us-gaap_NoninterestIncomeOtherOperatingIncome Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Details~~
~~Name:us-gaap_SubsequentEventTypeAxis=us-gaap_SubsequentEventMember Namespace Prefix: Data Type:na Balance Type: Period Type: XML 102 R49.htm IDEA: XBRL DOCUMENT~~
~~Income Taxes (Details)6 Months Ended~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Income Tax Disclosure [Abstract] Effective income tax rate(63.10%)50.00%~~
~~- Definition~~

~~Percentage of current income tax expense (benefit) and deferred income tax expense (benefit) pertaining to continuing operations.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 231 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482663/740-10-55-231~~

~~+ Details~~
~~Name:us-gaap_EffectiveIncomeTaxRateContinuingOperations Namespace Prefix:us-gaap_ Data Type:dtr-types:percentItemType Balance Type:na Period Type:duration~~

~~- References~~

~~No definition available.~~

~~+ Details~~
~~Name:us-gaap_IncomeTaxDisclosureAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration XML 103 R50.htm IDEA: XBRL DOCUMENT~~
~~Acquisition and disposal related costs (Details) - USD ($) $ in Millions3 Months Ended6 Months Ended~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Asset Acquisition [Line Items] Loss on held for sale asset group $ 7.5$ 0.0Disposal related costs$ (9.2)$ 0.0(9.4)0.0Graphic Arts Asset Acquisition [Line Items] Loss on held for sale asset group7.50.07.50.0Disposal related costs1.70.01.90.0Disposal related costs$ (9.2)$ 0.0$ (9.4)$ 0.0~~
~~- Definition~~

~~Disposal Group, Not Discontinued Operation, Disposal Cost~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:lxfr_DisposalGroupNotDiscontinuedOperationDisposalCost Namespace Prefix:lxfr_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Disposal Group, Not Discontinued Operation, Disposal Cost And Loss (Gain) On Write-Down~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:lxfr_DisposalGroupNotDiscontinuedOperationDisposalCostAndLossGainOnWriteDown Namespace Prefix:lxfr_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 805 -SubTopic 50 -Name Accounting Standards Codification -Section 15 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480123/805-50-15-3~~

~~+ Details~~
~~Name:us-gaap_AssetAcquisitionLineItems Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Amount, before tax, of (gain) loss recognized for the (reversal of write-down) write-down to fair value, less cost to sell, of a disposal group. Excludes discontinued operations.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 5 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-5Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3~~

~~+ Details~~
~~Name:us-gaap_DisposalGroupNotDiscontinuedOperationLossGainOnWriteDown Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Details~~
~~Name:us-gaap_StatementBusinessSegmentsAxis=lxfr_GraphicArtsMember Namespace Prefix: Data Type:na Balance Type: Period Type: XML 104 R51.htm IDEA: XBRL DOCUMENT~~
~~Acquisition and disposal related costs - Additional Information (Details) - USD ($) $ in Millions3 Months Ended6 Months Ended~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Asset Acquisition [Line Items] Loss on held for sale asset group $ 7.5$ 0.0Graphic Arts Asset Acquisition [Line Items] Loss on held for sale asset group$ 7.5$ 0.07.50.0~~
~~Disposal related costs$ 1.7$ 0.0$ 1.9$ 0.0~~
~~- Definition~~

~~Disposal Group, Not Discontinued Operation, Disposal Cost~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:lxfr_DisposalGroupNotDiscontinuedOperationDisposalCost Namespace Prefix:lxfr_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 805 -SubTopic 50 -Name Accounting Standards Codification -Section 15 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480123/805-50-15-3~~

~~+ Details~~
~~Name:us-gaap_AssetAcquisitionLineItems Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Amount, before tax, of (gain) loss recognized for the (reversal of write-down) write-down to fair value, less cost to sell, of a disposal group. Excludes discontinued operations.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 5 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-5Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3~~

~~+ Details~~

~~Name:us-gaap_DisposalGroupNotDiscontinuedOperationLossGainOnWriteDown Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Details~~

~~Name:us-gaap_StatementBusinessSegmentsAxis=lxfr_GraphicArtsMember Namespace Prefix: Data Type:na Balance Type: Period Type: XML 105 R52.htm IDEA: XBRL DOCUMENT~~

~~Supplementary balance sheet information (Details) - USD ($) $ in MillionsJun. 30, 2024Dec. 31, 2023Accounts and other receivables Trade receivables$ 53.7$ 52.3 Prepayments and accrued income4.15.7Derivative financial instruments0.00.4Total accounts and other receivables60.959.9Inventories Raw materials and supplies32.434.7 Work-in-process27.834.8Finished goods28.026.4Total inventories88.295.9Other current assets Income tax receivable1.51.5Total other current assets1.51.5Property, plant and equipment, net Total property, plant and equipment301.9299.5Accumulated depreciation and impairment(238.8)(235.7)Total property, plant and equipment, net63.163.8 Current maturities of long-term debt and short-term borrowings Overdrafts0.24.6Total current maturities of long-term debt and short-term borrowings0.24.6Other current liabilities Restructuring provision3.23.3Short term provision0.10.1Derivative financial instruments0.20.0Operating lease liability4.04.7Advance payments1.90.8Total other current liabilities$ 9.4$ 8.9Operating lease, liability, current, statement of financial position [extensible enumeration]Total other current liabilities Total other current liabilitiesOther non-current liabilities Contingent liabilities$ 1.8$ 1.6Operating lease liability12.715.0Other non-current liabilities0.00.2Total other non-current liabilities$ 14.5$ 16.8Operating lease, liability, noncurrent, statement of financial position [extensible enumeration]Total other non-current liabilities Total other non-current liabilitiesRelated party Accounts and other receivables Other receivables$ 0.1$ 0.1Nonrelated party Accounts and other receivables Other receivables3.01.4Land, buildings and leasehold improvements Property, plant and equipment, net Total property, plant and equipment51.951.0Machinery and equipment Property, plant and equipment, net Total property, plant and equipment238.4234.9Construction in progress Property, plant and equipment, net Total property, plant and equipment$ 11.6$ 13.6~~

~~- Definition~~

~~Contingent Liabilities, Noncurrent~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:lxfr_ContingentLiabilitiesNoncurrent Namespace Prefix:lxfr_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- Definition~~

~~Current Provisions~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:lxfr_CurrentProvisions Namespace Prefix:lxfr_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_AccountsReceivableNetAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Amount, after allowance for credit loss, of right to consideration from customer for product sold and service rendered in normal course of business, classified as current.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481990/310-10-45-2~~

~~+ Details~~

~~Name:us-gaap_AccountsReceivableNetCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- Definition~~

~~Amount of accumulated depreciation, depletion and amortization for physical assets used in the normal conduct of business to produce goods and services.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(8)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(14)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 360 -SubTopic 10 -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1~~

~~+ Details~~

~~Name:us-gaap_AccumulatedDepreciationDepletionAndAmortizationPropertyPlantAndEquipment Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- Definition~~

~~Carrying value as of the balance sheet date of payments made in excess of existing cash balances, which will be honored by the bank but reflected as a loan to the entity. Overdrafts generally have a very short time frame for correction or repayment and are therefore more similar to short-term bank financing than trade financing.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 470 -SubTopic 10 -Section 45 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481573/470-10-45-10~~

~~+ Details~~

~~Name:us-gaap_BankOverdrafts Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- Definition~~

~~Represents the aggregate of total long-term debt, including current maturities and short-term debt.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_DebtLongtermAndShorttermCombinedAmount Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_DebtLongtermAndShorttermCombinedAmountAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Fair value, after the effects of master netting arrangements, of a financial asset or other contract with one or more underlyings, notional amount or payment provision or both, and the contract can be net settled by means outside the contract or delivery of an asset, expected to be settled within one year or normal operating cycle, if longer. Includes assets not subject to a master netting arrangement and not elected to be offset.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483466/210-20-50-3~~

~~+ Details~~

~~Name:us-gaap_DerivativeAssetsCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- Definition~~

~~Fair value, after the effects of master netting arrangements, of a financial liability or contract with one or more underlyings, notional amount or payment provision or both, and the contract can be net settled by means outside the contract or delivery of an asset, expected to be settled within one year or normal operating cycle, if longer. Includes assets not subject to a master netting arrangement and not elected to be offset.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483466/210-20-50-3~~

~~+ Details~~

~~Name:us-gaap_DerivativeLiabilitiesCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- Definition~~

~~Carrying amount due within one year of the balance sheet date (or one operating cycle, if longer) from tax authorities as of the balance sheet date representing refunds of overpayments or recoveries based on agreed-upon resolutions of disputes.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(10)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(3)(a)(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1~~

~~+ Details~~

~~Name:us-gaap_IncomeTaxesReceivable Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- Definition~~

~~Carrying amount, net of valuation reserves and adjustments, as of the balance sheet date of merchandise or goods held by the company that are readily available for sale.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 330 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.BB) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480581/330-10-S99-2Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)(a)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1~~

~~+ Details~~

~~Name:us-gaap_InventoryFinishedGoodsNetOfReserves Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- Definition~~

~~Amount after valuation and LIFO reserves of inventory expected to be sold, or consumed within one year or operating cycle, if longer.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1~~

~~+ Details~~

~~Name:us-gaap_InventoryNet Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_InventoryNetAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Aggregated amount of unprocessed materials to be used in manufacturing or production process and supplies that will be consumed. This amount is net of valuation reserves and adjustments.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 330 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.BB) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480581/330-10-S99-2Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1~~

~~+ Details~~
~~Name:us-gaap_InventoryRawMaterialsAndSuppliesNetOfReserves Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- Definition~~

~~Carrying amount, net of reserves and adjustments, as of the balance sheet date of merchandise or goods which are partially completed. This inventory is generally comprised of raw materials, labor and factory overhead costs, which require further materials, labor and overhead to be converted into finished goods, and which generally require the use of estimates to determine percentage complete and pricing.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 330 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.BB) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480581/330-10-S99-2Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)(a)(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1~~

~~+ Details~~
~~Name:us-gaap_InventoryWorkInProcessNetOfReserves Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- Definition~~

~~Present value of lessee's discounted obligation for lease payments from operating lease, classified as current.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1~~

~~+ Details~~
~~Name:us-gaap_OperatingLeaseLiabilityCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- Definition~~

~~Indicates line item in statement of financial position that includes current operating lease liability.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-2~~

~~+ Details~~
~~Name:us-gaap_OperatingLeaseLiabilityCurrentStatementOfFinancialPositionExtensibleList Namespace Prefix:us-gaap_ Data Type:enum2:enumerationSetItemType Balance Type:na Period Type:instant~~

~~- Definition~~

~~Present value of lessee's discounted obligation for lease payments from operating lease, classified as noncurrent.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1~~

~~+ Details~~
~~Name:us-gaap_OperatingLeaseLiabilityNoncurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- Definition~~

~~Indicates line item in statement of financial position that includes noncurrent operating lease liability.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-2~~

~~+ Details~~
~~Name:us-gaap_OperatingLeaseLiabilityNoncurrentStatementOfFinancialPositionExtensibleList Namespace Prefix:us-gaap_ Data Type:enum2:enumerationSetItemType Balance Type:na Period Type:instant~~

~~- References~~

~~No definition available.~~

~~+ Details~~
~~Name:us-gaap_OtherAssetsAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Amount of current assets classified as other.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1~~

~~+ Details~~
~~Name:us-gaap_OtherAssetsCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- Definition~~

~~Amount of liabilities classified as other, due within one year or the normal operating cycle, if longer.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10~~

~~+ Details~~
~~Name:us-gaap_OtherLiabilitiesCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- References~~

~~No definition available.~~

~~+ Details~~
~~Name:us-gaap_OtherLiabilitiesCurrentAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Amount of liabilities classified as other, due after one year or the normal operating cycle, if longer.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(24)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1~~

~~+ Details~~

~~Name:us-gaap_OtherLiabilitiesNoncurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_OtherLiabilitiesNoncurrentAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Amount, after allowance, of receivables classified as other, due within one year or the operating cycle, if longer.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_OtherReceivablesNetCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- Definition~~

~~Obligations not otherwise itemized or categorized in the footnotes to the financial statements that are due within one year or operating cycle, if longer, from the balance sheet date.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 470 -SubTopic 10 -Section 45 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481573/470-10-45-10~~

~~+ Details~~

~~Name:us-gaap_OtherSundryLiabilitiesCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- Definition~~

~~Obligations not otherwise itemized or categorized in the footnotes to the financial statements that are expected to be paid after one year (or the normal operating cycle, if longer), from the balance sheet date.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(24)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(15)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1~~

~~+ Details~~

~~Name:us-gaap_OtherSundryLiabilitiesNoncurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- Definition~~

~~Amount of asset related to consideration paid in advance for costs that provide economic benefits within a future period of one year or the normal operating cycle, if longer.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 340 -SubTopic 10 -Name Accounting Standards Codification -Section 05 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482955/340-10-05-5Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 340 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483032/340-10-45-1~~

~~+ Details~~

~~Name:us-gaap_PrepaidExpenseCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_PropertyPlantAndEquipmentAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Amount before accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(13)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1~~

~~+ Details~~

~~Name:us-gaap_PropertyPlantAndEquipmentGross Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- Definition~~

~~Amount after accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business to produce goods and services and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-7AReference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 360 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478451/942-360-50-1~~

~~+ Details~~

~~Name:us-gaap_PropertyPlantAndEquipmentNet Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- Definition~~

~~The total amount due to the entity within one year of the balance sheet date (or one operating cycle, if longer) from outside sources, including trade accounts receivable, notes and loans receivable, as well as any other types of receivables, net of allowances established for the purpose of reducing such receivables to an amount that approximates their net realizable value.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10~~

~~+ Details~~

~~Name:us-gaap_ReceivablesNetCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- Definition~~

~~Carrying amount as of the balance sheet date of known and estimated obligations associated with exit from or disposal of business activities or restructurings pursuant to a duly authorized plan, which are expected to be paid in the next twelve months or in the normal operating cycle if longer. Costs of such activities include those for one-time termination benefits, termination of an operating lease or other contract, consolidating or closing facilities, relocating employees, and costs associated with an ongoing benefit arrangement, but excludes costs associated with the retirement of a long-lived asset.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.b.2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482017/420-10-50-1~~

~~+ Details~~

~~Name:us-gaap_RestructuringReserveCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- Details~~

~~Name:us-gaap_RelatedPartyTransactionsByRelatedPartyAxis=us-gaap_RelatedPartyMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~

~~- Details~~

~~Name:us-gaap_RelatedPartyTransactionsByRelatedPartyAxis=us-gaap_NonrelatedPartyMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~

~~- Details~~

~~Name:us-gaap_PropertyPlantAndEquipmentByTypeAxis=us-gaap_LandBuildingsAndImprovementsMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~

~~- Details~~

~~Name:us-gaap_PropertyPlantAndEquipmentByTypeAxis=us-gaap_MachineryAndEquipmentMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~

~~- Details~~

~~Name:us-gaap_PropertyPlantAndEquipmentByTypeAxis=us-gaap_ConstructionInProgressMember Namespace Prefix: Data Type:na Balance Type: Period Type: XML 106 R53.htm IDEA: XBRL DOCUMENT~~

~~Goodwill and other identifiable intangible assets - Schedule of Goodwill (Details) $ in Millions6 Months Ended~~
~~Jun. 30, 2024~~
~~USD ($)~~
~~Goodwill [Roll Forward] Beginning balance$ 67.5Exchange difference(0.3)Ending balance67.2Gas Cylinders Goodwill [Roll Forward] Beginning balance26.2Exchange difference(0.2)Ending balance26.0Elektron Goodwill [Roll Forward] Beginning balance41.3Exchange difference(0.1)Ending balance$ 41.2~~
~~- Definition~~

~~Amount, after accumulated impairment loss, of asset representing future economic benefit arising from other asset acquired in business combination or from joint venture formation or both, that is not individually identified and separately recognized.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482548/350-20-55-24Reference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(15)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482598/350-20-45-1Reference 7: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(10)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1~~

~~+ Details~~

~~Name:us-gaap_Goodwill Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- Definition~~

~~Amount of foreign currency translation gain (loss) which increases (decreases) asset representing future economic benefit from other asset acquired in business combination or from joint venture formation or both, that is not individually identified and separately recognized.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1~~

~~+ Details~~

~~Name:us-gaap_GoodwillForeignCurrencyTranslationGainLoss Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Definition~~

~~A roll forward is a reconciliation of a concept from the beginning of a period to the end of a period.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_GoodwillRollForward Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Details~~

~~Name:us-gaap_StatementBusinessSegmentsAxis=lxfr_GasCylindersSegmentMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~

~~- Details~~

~~Name:us-gaap_StatementBusinessSegmentsAxis=lxfr_ElektronSegmentMember Namespace Prefix: Data Type:na Balance Type: Period Type: XML 107 R54.htm IDEA: XBRL DOCUMENT~~

~~Goodwill and other identifiable intangible assets - Additional Information (Details) - USD ($) $ in Millions 6 Months Ended~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Dec. 31, 2023~~
~~Goodwill and Intangible Assets Disclosure [Abstract] Accumulated goodwill impairment losses $ 8.0 $ 8.0 Charge $ 0.4 $ 0.4 Useful life 5 years Finite-Lived Intangible Assets, Net, Amortization Expense, Fiscal Year Maturity Amortization, remainder of fiscal year $ 0.8 Amortization, year one 0.8 Amortization, year two 0.8 Amortization, year three 0.8 Amortization, year four $ 0.8~~

~~- Definition~~

~~The aggregate expense charged against earnings to allocate the cost of intangible assets (nonphysical assets not used in production) in a systematic and rational manner to the periods expected to benefit from such assets. As a noncash expense, this element is added back to net income when calculating cash provided by or used in operations using the indirect method.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482686/350-30-45-2~~

~~+ Details~~

~~Name:us-gaap_AmortizationOfIntangibleAssets Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Useful life of finite-lived intangible assets, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_FiniteLivedIntangibleAssetUsefulLife Namespace Prefix:us-gaap_ Data Type:xbrli:durationItemType Balance Type:na Period Type:instant~~

~~- Definition~~

~~***Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in next fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach).***~~

~~***+ References***~~

~~***Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2***~~

~~***+ Details***~~

~~***Name:us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseNextTwelveMonths Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant***~~

~~***- Definition***~~

~~***Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in remainder of current fiscal year.***~~

~~***+ References***~~

~~***Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2***~~

~~***+ Details***~~

~~***Name:us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseRemainderOfFiscalYear Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant***~~

~~***- Definition***~~

~~***Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in fourth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach).***~~

~~***+ References***~~

~~***Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2***~~

~~***+ Details***~~

~~***Name:us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearFour Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type: instant***~~

~~***- Definition***~~

~~***Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in third fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach).***~~

~~***+ References***~~

~~Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2~~

~~+ Details~~

~~Name:us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearThree Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type: instant~~

~~- Definition~~

~~Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in second fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach).~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2~~

~~+ Details~~

~~Name:us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearTwo Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type: instant~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_FiniteLivedIntangibleAssetsFutureAmortizationExpenseAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type: duration~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_GoodwillAndIntangibleAssetsDisclosureAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Amount of accumulated impairment loss for asset representing future economic benefit arising from other asset acquired in business combination or from joint venture formation or both, that is not individually identified and separately recognized.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482548/350-20-55-24Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1~~

~~+ Details~~
~~Name:us-gaap_GoodwillImpairedAccumulatedImpairmentLoss Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant XML~~
~~108 R55.htm IDEA: XBRL DOCUMENT~~
~~Goodwill and other identifiable intangible assets - Schedule of Intangible Assets (Details) - USD ($) $ in Millions 6 Months Ended~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Dec. 31, 2023~~
~~Cost: Beginning balance $ 23.0 Ending balance 23.0 Accumulated amortization: Beginning balance 11.0 Charge 0.4 $ 0.4 Ending balance 11.4 Net book values: 11.6 $ 12.0 Customer relationships Cost: Beginning balance 15.2 Ending balance 15.2 Accumulated amortization: Beginning balance 6.6 Charge 0.2 Ending balance 6.8 Net book values: 8.4 8.6 Technology and trading related Cost: Beginning balance 7.8 Ending balance 7.8 Accumulated amortization: Beginning balance 4.4 Charge 0.2 Ending balance 4.6 Net book values: $ 3.2 $ 3.4~~
~~- References~~

~~No definition available.~~

~~+ Details~~
~~Name:us-gaap_AdjustmentForAmortizationAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~The aggregate expense charged against earnings to allocate the cost of intangible assets (nonphysical assets not used in production) in a systematic and rational manner to the periods expected to benefit from such assets. As a noncash expense, this element is added back to net income when calculating cash provided by or used in operations using the indirect method.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482686/350-30-45-2~~

~~+ Details~~
~~Name:us-gaap_AmortizationOfIntangibleAssets Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Accumulated amount of amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 10 -Name Accounting Standards Codification -Section S45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480265/350-10-S45-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(16)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1~~

~~***+ Details***~~

~~***Name:us-gaap_FiniteLivedIntangibleAssetsAccumulatedAmortization Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant***~~

~~***- Definition***~~

~~***Amount before amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life.***~~

~~***+ References***~~

~~***Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 10 -Name Accounting Standards Codification -Section S45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480265/350-10-S45-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 928 -SubTopic 340 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478859/928-340-50-1***~~

~~***+ Details***~~

~~***Name:us-gaap_FiniteLivedIntangibleAssetsGross Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant***~~

~~***- Definition***~~

~~***Amount after amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life.***~~

~~***+ References***~~

~~***Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 926 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483154/926-20-50-5***~~

~~+ Details~~

~~Name:us-gaap_FiniteLivedIntangibleAssetsNet Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- Definition~~

~~A roll forward is a reconciliation of a concept from the beginning of a period to the end of a period.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_FiniteLivedIntangibleAssetsRollForward Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Details~~

~~Name:us-gaap_FiniteLivedIntangibleAssetsByMajorClassAxis=us-gaap_CustomerRelationshipsMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~

~~- Details~~

~~Name:us-gaap_FiniteLivedIntangibleAssetsByMajorClassAxis=us-gaap_TechnologyBasedIntangibleAssetsMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~

~~XML 109 R56.htm IDEA: XBRL DOCUMENT~~

~~Debt - Schedule of Debt Outstanding (Details) - USD ($) $ in MillionsJun. 30, 2024Dec. 31, 2023Debt Instrument [Line Items] Unamortized debt issuance costs$ (0.3)$ (0.5) Total debt74.272.2Less current portion(0.2)(4.6)Non-current debt74.067.6Revolving credit facility Debt Instrument [Line Items] Drawn49.343.1Overdraft Debt Instrument [Line Items] Drawn$ 0.24.6Loan Notes | 4.94% Loan Notes due 2026 Debt Instrument [Line Items] Debt stated interest rate4.94% Drawn$ 25.0$ 25.0~~

~~- Definition~~

~~Amount, before unamortized (discount) premium and debt issuance costs, of long-term debt. Includes, but is not limited to, notes payable, bonds payable, commercial loans, mortgage loans, convertible debt, subordinated debt and other types of debt.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(16)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (b)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-4~~

~~+ Details~~

~~Name:us-gaap_DebtInstrumentCarryingAmount Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- Definition~~

~~Contractual interest rate for funds borrowed, under the debt agreement.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)(a)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1B~~

~~+ Details~~

~~Name:us-gaap_DebtInstrumentInterestRateStatedPercentage Namespace Prefix:us-gaap_ Data Type:dtr-types:percentItemType Balance Type:na Period Type:instant~~

~~- Definition~~

~~Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482949/835-30-55-8Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(f)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.12-04(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69B -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69BReference 6: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards~~

~~Codification -Section 55 -Paragraph 69C -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69CReference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69E -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69EReference 8: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69F -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69FReference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 11: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1DReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1DReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1DReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1I -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1IReference 26: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2Reference 27: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482900/835-30-50-1~~

~~+ Details~~

~~Name:us-gaap_DebtInstrumentLineItems Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Amount, after accumulated amortization, of debt issuance costs. Includes, but is not limited to, legal, accounting, underwriting, printing, and registration costs.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-1AReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482900/835-30-50-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1D~~

~~***+ Details***~~

~~***Name:us-gaap_DeferredFinanceCostsNet Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant***~~

~~***- Definition***~~

~~***Amount, after deduction of unamortized premium (discount) and debt issuance cost, of long-term debt. Excludes lease obligation.***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482949/835-30-55-8Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(16)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69B -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69BReference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69C -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69CReference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1DReference 7: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(16)(a)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (b)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-4***~~

~~***+ Details***~~

~~***Name:us-gaap_LongTermDebt Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant***~~

~~***- Definition***~~

~~***Amount, after deduction of unamortized premium (discount) and debt issuance cost, of long-term debt classified as current. Excludes lease obligation.***~~

~~***+ References***~~

~~***Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1***~~

~~+ Details~~

~~Name:us-gaap_LongTermDebtCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- Definition~~

~~Amount, after deduction of unamortized premium (discount) and debt issuance cost, of long-term debt classified as noncurrent. Excludes lease obligation.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1~~

~~+ Details~~

~~Name:us-gaap_LongTermDebtNoncurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- Details~~

~~Name:us-gaap_CreditFacilityAxis=us-gaap_RevolvingCreditFacilityMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~

~~- Details~~

~~Name:us-gaap_DebtInstrumentAxis=us-gaap_BankOverdraftsMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~

~~- Details~~

~~Name:us-gaap_LongtermDebtTypeAxis=us-gaap_SeniorNotesMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~

~~- Details~~

~~Name:us-gaap_DebtInstrumentAxis=lxfr_LoanNotesDue2026Member Namespace Prefix: Data Type:na Balance Type: Period Type: XML 110 R57.htm IDEA: XBRL DOCUMENT~~

~~Debt - Additional Information (Details) - USD ($) $ in Millions 6 Months Ended~~

~~Jun. 30, 2024~~

~~Jul. 02, 2023~~

~~Dec. 31, 2023~~

~~Debt Instrument [Line Items] Net drawdown of long-term borrowings$ 6.4$ 35.1 Revolving credit facility Debt Instrument [Line Items] Debt, weighted average interest rate7.80% 7.70%Drawn$ 49.3 $ 43.1Borrowing capacity$ 75.7~~

~~- Definition~~

~~Amount, before unamortized (discount) premium and debt issuance costs, of long-term debt. Includes, but is not limited to, notes payable, bonds payable, commercial loans, mortgage loans, convertible debt, subordinated debt and other types of debt.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(16)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (b)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-4~~

~~+ Details~~

~~Name:us-gaap_DebtInstrumentCarryingAmount Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- Definition~~

~~Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482949/835-30-55-8Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(f)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.12-04(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69B -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69BReference 6: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69C -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69CReference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69E -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69EReference 8: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69F -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69FReference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (c) -Publisher FASB~~

~~***-URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 11: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1DReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1DReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1DReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1I -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1IReference 26: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2Reference 27: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482900/835-30-50-1***~~

~~***+ Details***~~
~~***Name:us-gaap_DebtInstrumentLineItems Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration***~~

~~***- Definition***~~

~~***Weighted average interest rate of debt outstanding.***~~

~~***+ References***~~

~~***No definition available.***~~

~~***+ Details***~~
~~***Name:us-gaap_DebtWeightedAverageInterestRate Namespace Prefix:us-gaap_ Data Type:dtr-types:percentItemType Balance Type:na Period Type:instant***~~

~~***- Definition***~~

~~***Amount of borrowing capacity currently available under the credit facility (current borrowing capacity less the amount of borrowings outstanding).***~~

~~***+ References***~~

~~***Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481544/470-10-50-6Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1***~~

~~+ Details~~

~~Name:us-gaap_LineOfCreditFacilityRemainingBorrowingCapacity Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- Definition~~

~~Amount of cash inflow (outflow) from long-term debt, finance lease obligation, and mandatorily redeemable capital security.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 14 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-14Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 14 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-14~~

~~+ Details~~

~~Name:us-gaap_ProceedsFromRepaymentsOfLongTermDebtAndCapitalSecurities Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Details~~

~~Name:us-gaap_CreditFacilityAxis=us-gaap_RevolvingCreditFacilityMember Namespace Prefix: Data Type:na Balance Type: Period Type: XML 111 R58.htm IDEA: XBRL DOCUMENT~~

~~Discontinued Operations - Results of Discontinued Operations (Details) - USD ($) $ in Millions3 Months Ended6 Months Ended~~

~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~

~~Income Statement, Balance Sheet and Additional Disclosures by Disposal Groups, Including Discontinued Operations [Line Items] Net loss$ (0.1)$ (0.2)$ (0.2)$ (0.2)~~
~~Discontinued Operations, Held-for-sale | Superform Aluminum Superplastic Income Statement, Balance Sheet and Additional Disclosures by Disposal Groups, Including Discontinued Operations [Line Items] Net sales1.61.93.14.2Cost of goods sold(1.4)(1.7)(2.5)(3.6)Gross profit0.20.20.60.6Selling, general and administrative expenses(0.4)(0.4)(0.8)(0.7)Restructuring charge0.0(0.1)(0.1)(0.2)Operating loss(0.2)(0.3)(0.3)(0.3)Tax credit0.10.10.10.1Net loss$ (0.1)$ (0.2)$ (0.2)$ (0.2)~~

~~- Definition~~

~~Disposal Group, Including Discontinued Operation, Restructuring Expense (Credit)~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:lxfr_DisposalGroupIncludingDiscontinuedOperationRestructuringExpenseCredit Namespace Prefix:lxfr_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Amount after tax of income (loss) from operations classified as a discontinued operation. Excludes gain (loss) on disposal and provision for gain (loss) until disposal.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3A -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3AReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3~~

~~+ Details~~

~~Name:us-gaap_DiscontinuedOperationIncomeLossFromDiscontinuedOperationDuringPhaseOutPeriodNetOfTax Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Definition~~

~~Amount of tax expense (benefit) attributable to income (loss) from operations classified as a discontinued operation. Excludes tax expense (benefit) for gain (loss) on disposal and for provision for gain (loss) until disposal.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 740 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482659/740-20-45-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name~~

~~Accounting Standards Codification -Section 45 -Paragraph 3A -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-3AReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5C~~

~~+ Details~~

~~Name:us-gaap_DiscontinuedOperationTaxEffectOfIncomeLossFromDiscontinuedOperationDuringPhaseOutPeriod Namespace Prefix:us-gaap_ Data Type: xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Amount of costs of goods sold attributable to disposal group, including, but not limited to, discontinued operation.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5B~~

~~+ Details~~

~~Name:us-gaap_DisposalGroupIncludingDiscontinuedOperationCostsOfGoodsSold Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Amount of general and administrative expense attributable to disposal group, including, but not limited to, discontinued operation.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5B~~

~~+ Details~~

~~Name:us-gaap_DisposalGroupIncludingDiscontinuedOperationGeneralAndAdministrativeExpense Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Amount of gross profit attributable to disposal group, including, but not limited to, discontinued operation.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5B~~

~~+ Details~~

~~Name:us-gaap_DisposalGroupIncludingDiscontinuedOperationGrossProfitLoss Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Definition~~

~~Amount of operating income (loss) attributable to disposal group, including, but not limited to, discontinued operation.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5B~~

~~+ Details~~

~~Name:us-gaap_DisposalGroupIncludingDiscontinuedOperationOperatingIncomeLoss Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Definition~~

~~Amount of revenue attributable to disposal group, including, but not limited to, discontinued operation.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5B~~

~~+ Details~~

~~Name:us-gaap_DisposalGroupIncludingDiscontinuedOperationRevenue Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type: duration~~

~~- Definition~~

~~Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_IncomeStatementBalanceSheetAndAdditionalDisclosuresByDisposalGroupsIncludingDiscontinuedOperationsLineItems Namespace Prefix:us-gaap_ Data Type: xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Details~~

~~Name:us-gaap_DisposalGroupClassificationAxis=us-gaap_DiscontinuedOperationsHeldforsaleMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~

~~- Details~~

~~Name:us-gaap_IncomeStatementBalanceSheetAndAdditionalDisclosuresByDisposalGroupsIncludingDiscontinuedOperationsAxis=lxfr_SuperformAluminumSuperplasticMembe~~
~~Namespace Prefix: Data Type:na Balance Type: Period Type: XML 112 R59.htm IDEA: XBRL DOCUMENT~~
~~Discontinued Operations - Assets and Liabilities (Details) - USD ($) $ in MillionsJun. 30, 2024Dec. 31, 2023Held-for-sale assets Current assets$ 23.4$ 8.9Held-for-sale liabilities Held-for-sale liabilities9.43.9Discontinued operations | Superform Aluminum Superplastic Held-for-sale assets Inventory3.73.3Accounts and other receivables2.1 2.3Current assets5.85.6Right-of-use-assets1.72.1Held-for-sale assets7.57.7Held-for-sale liabilities Accounts payable0.70.9Accrued liabilities0.30.4Other liabilities2.42.6 Held-for-sale liabilities$ 3.4$ 3.9~~

~~- Definition~~

~~Disposal Group, Including Discontinued Operation, Operating Lease Right of Use Asset~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:lxfr_DisposalGroupIncludingDiscontinuedOperationOperatingLeaseRightOfUseAsset Namespace Prefix:lxfr_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- Definition~~

~~Amount classified as assets attributable to disposal group held for sale or disposed of.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11~~

~~***+ Details***~~

~~***Name:us-gaap_AssetsOfDisposalGroupIncludingDiscontinuedOperation Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type: instant***~~

~~***- References***~~

~~***No definition available.***~~

~~***+ Details***~~

~~***Name:us-gaap_AssetsOfDisposalGroupIncludingDiscontinuedOperationAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type: duration***~~

~~***- Definition***~~

~~***Amount classified as assets attributable to disposal group held for sale or disposed of, expected to be disposed of within one year or the normal operating cycle, if longer.***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-9Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11***~~

~~+ Details~~

~~Name:us-gaap_AssetsOfDisposalGroupIncludingDiscontinuedOperationCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- Definition~~

~~Amount classified as accounts, notes and loans receivable attributable to disposal group held for sale or disposed of.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11~~

~~+ Details~~

~~Name:us-gaap_DisposalGroupIncludingDiscontinuedOperationAccountsNotesAndLoansReceivableNet Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- Definition~~

~~Amount classified as accounts payable attributable to disposal group held for sale or disposed of, expected to be disposed of within one year or the normal operating cycle, if longer.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-9Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11~~

~~***+ Details***~~

~~***Name:us-gaap_DisposalGroupIncludingDiscontinuedOperationAccountsPayableCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant***~~

~~***- Definition***~~

~~***Amount classified as accrued liabilities attributable to disposal group held for sale or disposed of.***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11***~~

~~***+ Details***~~

~~***Name:us-gaap_DisposalGroupIncludingDiscontinuedOperationAccruedLiabilities Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant***~~

~~***- Definition***~~

~~***Amount classified as inventory attributable to disposal group, expected to be disposed of within one year or the normal operating cycle, if longer.***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-9Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11***~~

~~+ Details~~
~~Name:us-gaap_DisposalGroupIncludingDiscontinuedOperationInventoryCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- Definition~~

~~Amount classified as other liabilities attributable to disposal group held for sale or disposed of.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11~~

~~+ Details~~
~~Name:us-gaap_DisposalGroupIncludingDiscontinuedOperationOtherLiabilities Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- References~~

~~No definition available.~~

~~+ Details~~
~~Name:us-gaap_LiabilitiesOfDisposalGroupIncludingDiscontinuedOperationAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type: duration~~

~~- Definition~~

~~Amount classified as liabilities attributable to disposal group held for sale or disposed of, expected to be disposed of within one year or the normal operating cycle, if longer.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-9Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11~~

~~+ Details~~
~~Name:us-gaap_LiabilitiesOfDisposalGroupIncludingDiscontinuedOperationCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- Details~~
~~Name:us-gaap_DisposalGroupClassificationAxis=us-gaap_SegmentDiscontinuedOperationsMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~
~~- Details~~
~~Name:us-gaap_IncomeStatementBalanceSheetAndAdditionalDisclosuresByDisposalGroupsIncludingDiscontinuedOperationsAxis=lxfr_SuperformAluminumSuperplasticMembe~~
~~Namespace Prefix: Data Type:na Balance Type: Period Type: XML 113 R60.htm IDEA: XBRL DOCUMENT~~
~~Discontinued Operations - Additional Information (Details) - Superform Aluminum Superplastic - USD ($) $ in Millions6 Months Ended12 Months Ended~~
~~Jun. 30, 2024~~
~~Dec. 31, 2023~~
~~Income Statement, Balance Sheet and Additional Disclosures by Disposal Groups, Including Discontinued Operations [Line Items] Capital expenditure, discontinued operations$ 0.1$ 0.0Depreciation and amortization, discontinued operations$ 0.0~~
~~- Definition~~

~~Amount of capital expenditure attributable to discontinued operations.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (c)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5B~~

~~+ Details~~

~~Name:us-gaap_CapitalExpenditureDiscontinuedOperations Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Amount of deprecation and amortization expense attributable to property, plant and equipment and intangible assets of discontinued operations.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (c)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5B~~

~~+ Details~~

~~Name:us-gaap_DepreciationAndAmortizationDiscontinuedOperations Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type: duration~~

~~- Definition~~

~~Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_IncomeStatementBalanceSheetAndAdditionalDisclosuresByDisposalGroupsIncludingDiscontinuedOperationsLineItems Namespace Prefix:us-gaap_ Data Type: xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Details~~

~~Name:us-gaap_StatementBusinessSegmentsAxis=lxfr_SuperformAluminumSuperplasticMember Namespace Prefix: Data Type:na Balance Type: Period Type: XML 114 R61.htm IDEA: XBRL DOCUMENT~~

~~Held-for-sale assets and liabilities - Schedule of Current Held-for-Sale Assets and Liabilities (Details) - USD ($) $ in MillionsJun. 30, 2024Dec. 31, 2023Held-for-sale assets Current assets$ 23.4$ 8.9Held-for-sale liabilities Held-for-sale liabilities9.43.9Held-for-sale | Graphic Arts Held-for-sale assets Inventory12.33.3Accounts and other receivables8.22.3Current assets20.55.6Property, plant and equipment1.21.2Right-of-use-assets1.72.1Non-current assets2.93.3Held-for-sale assets23.48.9Held-for-sale liabilities Accounts payable2.90.9Accrued liabilities2.90.4Other liabilities3.62.6Held-for-sale liabilities$ 9.4$ 3.9~~

~~- Definition~~

~~Disposal Group, Including Discontinued Operation, Operating Lease Right of Use Asset~~

~~+ References~~

~~No definition available.~~

~~+ Details~~

~~Name:lxfr_DisposalGroupIncludingDiscontinuedOperationOperatingLeaseRightOfUseAsset Namespace Prefix:lxfr_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- Definition~~

~~Amount classified as assets attributable to disposal group held for sale or disposed of.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11~~

~~***+ Details***~~

~~***Name:us-gaap_AssetsOfDisposalGroupIncludingDiscontinuedOperation Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type: instant***~~

~~***- References***~~

~~***No definition available.***~~

~~***+ Details***~~

~~***Name:us-gaap_AssetsOfDisposalGroupIncludingDiscontinuedOperationAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type: duration***~~

~~***- Definition***~~

~~***Amount classified as assets attributable to disposal group held for sale or disposed of, expected to be disposed of within one year or the normal operating cycle, if longer.***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-9Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11***~~

~~+ Details~~

~~Name:us-gaap_AssetsOfDisposalGroupIncludingDiscontinuedOperationCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- Definition~~

~~Amount classified as accounts, notes and loans receivable attributable to disposal group held for sale or disposed of.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11~~

~~+ Details~~

~~Name:us-gaap_DisposalGroupIncludingDiscontinuedOperationAccountsNotesAndLoansReceivableNet Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- Definition~~

~~Amount classified as accounts payable attributable to disposal group held for sale or disposed of, expected to be disposed of within one year or the normal operating cycle, if longer.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-9Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11~~

~~***+ Details***~~

~~***Name:us-gaap_DisposalGroupIncludingDiscontinuedOperationAccountsPayableCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant***~~

~~***- Definition***~~

~~***Amount classified as accrued liabilities attributable to disposal group held for sale or disposed of.***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11***~~

~~***+ Details***~~

~~***Name:us-gaap_DisposalGroupIncludingDiscontinuedOperationAccruedLiabilities Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant***~~

~~***- Definition***~~

~~***Amount classified as assets attributable to disposal group held for sale or disposed of, expected to be disposed of after one year or the normal operating cycle, if longer.***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 11 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-11Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11***~~

~~***+ Details***~~

~~***Name:us-gaap_DisposalGroupIncludingDiscontinuedOperationAssetsNoncurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant***~~

~~***- Definition***~~

~~***Amount classified as inventory attributable to disposal group, expected to be disposed of within one year or the normal operating cycle, if longer.***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-9Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11***~~

~~***+ Details***~~

~~***Name:us-gaap_DisposalGroupIncludingDiscontinuedOperationInventoryCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant***~~

~~***- Definition***~~

~~***Amount classified as other liabilities attributable to disposal group held for sale or disposed of.***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI***~~

~~https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11~~

~~+ Details~~

~~Name:us-gaap_DisposalGroupIncludingDiscontinuedOperationOtherLiabilities Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- Definition~~

~~Amount classified as property, plant and equipment attributable to disposal group held for sale or disposed of, expected to be disposed of after one year or the normal operating cycle, if longer.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 11 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-11Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11~~

~~+ Details~~

~~Name:us-gaap_DisposalGroupIncludingDiscontinuedOperationPropertyPlantAndEquipmentNoncurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- References~~

~~No definition available.~~

~~+ Details~~
~~Name:us-gaap_LiabilitiesOfDisposalGroupIncludingDiscontinuedOperationAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type: duration~~

~~- Definition~~

~~Amount classified as liabilities attributable to disposal group held for sale or disposed of, expected to be disposed of within one year or the normal operating cycle, if longer.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10 -SubTopic 20 -Topic 205 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-10Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5C -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5CReference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-9Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-5BReference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483475/205-20-45-11~~

~~+ Details~~
~~Name:us-gaap_LiabilitiesOfDisposalGroupIncludingDiscontinuedOperationCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- Details~~
~~Name:us-gaap_DisposalGroupClassificationAxis=us-gaap_DisposalGroupHeldforsaleNotDiscontinuedOperationsMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~
~~- Details~~
~~Name:us-gaap_IncomeStatementBalanceSheetAndAdditionalDisclosuresByDisposalGroupsIncludingDiscontinuedOperationsAxis=lxfr_GraphicArtsMember Namespace Prefix: Data Type:na Balance Type: Period Type: XML 115 R62.htm IDEA: XBRL DOCUMENT~~
~~Held-for-sale assets and liabilities - Additional information (Details) - USD ($) $ in Millions3 Months Ended6 Months Ended~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Income Statement, Balance Sheet and Additional Disclosures by Disposal Groups, Including Discontinued Operations [Line Items] Loss on held for sale asset group $ 7.5 $ 0.0Restructuring charges$ 1.1$ 2.51.8$ 2.8Graphic Arts | Held-for-sale Income Statement, Balance Sheet and Additional Disclosures by Disposal Groups, Including Discontinued Operations [Line Items] Loss on held for sale asset group$ 7.5 Restructuring charges $ 1.4~~
~~- Definition~~

~~Amount, before tax, of (gain) loss recognized for the (reversal of write-down) write-down to fair value, less cost to sell, of a disposal group. Excludes discontinued operations.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 5 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-5Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-3~~

~~+ Details~~
~~Name:us-gaap_DisposalGroupNotDiscontinuedOperationLossGainOnWriteDown Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:us-gaap_IncomeStatementBalanceSheetAndAdditionalDisclosuresByDisposalGroupsIncludingDiscontinuedOperationsLineItems Namespace Prefix:us-gaap_ Data Type: xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Amount of restructuring charges, remediation cost, and asset impairment loss.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2~~

~~+ Details~~
~~Name:us-gaap_RestructuringSettlementAndImpairmentProvisions Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Details~~
~~Name:us-gaap_IncomeStatementBalanceSheetAndAdditionalDisclosuresByDisposalGroupsIncludingDiscontinuedOperationsAxis=lxfr_GraphicArtsMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~
~~- Details~~
~~Name:us-gaap_DisposalGroupClassificationAxis=us-gaap_DisposalGroupHeldforsaleNotDiscontinuedOperationsMember Namespace Prefix: Data Type:na Balance Type: Period Type: XML 116 R63.htm IDEA: XBRL DOCUMENT~~
~~Share Plans - Schedule of Share-based Compensation Expense (Details) - USD ($) $ in Millions3 Months Ended6 Months Ended~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Share-Based Payment Arrangement [Abstract] Total share-based compensation charges$ 0.8$ 0.7$ 1.4$ 1.3~~
~~- Definition~~

~~Amount of expense for award under share-based payment arrangement. Excludes amount capitalized.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 14.F) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479830/718-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (h)(1)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2~~

~~+ Details~~

~~Name:us-gaap_AllocatedShareBasedCompensationExpense Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- References~~

~~No definition available.~~

~~+ Details~~

~~Name:us-gaap_DisclosureOfCompensationRelatedCostsSharebasedPaymentsAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type: duration XML 117 R64.htm IDEA: XBRL DOCUMENT~~
~~Share Plans - Additional Information (Details) - $ / shares1 Months Ended~~
~~Jun. 30, 2024~~
~~Mar. 31, 2024~~
~~Luxfer Holdings PLC Long-Term Umbrella Incentive Plan Share-based Compensation Arrangement by Share-based Payment Award [Line Items] Awards granted during the period (in shares) 155,000Weighted average fair value of options granted (in USD per share) $ 10.44Luxfer Holdings PLC Non-Executive Directors' Equity Incentive Plan Share-based Compensation Arrangement by Share-based Payment Award [Line Items] Awards granted during the period (in shares)47,012 Weighted average fair value of options granted (in USD per share)$ 10.53~~
~~- Definition~~

~~Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 35 -Paragraph 1D -Publisher FASB -URI https://asc.fasb.org/1943274/2147480483/718-10-35-1DReference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 35 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480483/718-10-35-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(01) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(02) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(01) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(02) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(iv) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(v) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2~~

~~+ Details~~
~~Name:us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardLineItems Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Gross number of share options (or share units) granted during the period.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(01) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2~~

~~+ Details~~
~~Name:us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsGrantsInPeriodGross Namespace Prefix:us-gaap_ Data Type:xbrli:sharesItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Weighted average per share amount at which grantees can acquire shares of common stock by exercise of options.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(01) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2~~

~~+ Details~~
~~Name:us-gaap_ShareBasedCompensationArrangementsByShareBasedPaymentAwardOptionsGrantsInPeriodWeightedAverageExercisePrice Namespace Prefix:us-gaap_ Data Type:dtr-types:perShareItemType Balance Type:na Period Type:duration~~

~~- Details~~
~~Name:us-gaap_PlanNameAxis=lxfr_LuxferHoldingsPLCLongTermUmbrellaIncentivePlanMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~
~~- Details~~
~~Name:us-gaap_PlanNameAxis=lxfr_LuxferHoldingsPLCNonExecutiveDirectorsEquityIncentivePlanMember Namespace Prefix: Data Type:na Balance Type: Period Type: XML 118 R65.htm IDEA: XBRL DOCUMENT~~
~~Share Plans - Share Options Fair Value Assumptions (Details) - $ / shares6 Months Ended12 Months Ended~~
~~Jun. 30, 2024~~
~~Dec. 31, 2023~~
~~Share-based Compensation Arrangement by Share-based Payment Award [Line Items] Expected volatility range (%), minimum31.54%31.54%Expected volatility range (%), maximum43.49%43.49%Risk-free interest rate (%), minimum3.67%3.67%Risk-free interest rate (%), maximum5.16%5.16%Forfeiture rate (%)5.00%5.00%Weighted average exercise price (in USD per share)$ 1.00$ 1.00Minimum Share-based Compensation Arrangement by Share-based Payment Award [Line Items] Dividend yield (%)3.15%3.15% Expected life of share options range (years)1 year1 yearMaximum Share-based Compensation Arrangement by Share-based Payment Award [Line Items] Dividend yield (%) 3.32%3.32%Expected life of share options range (years)4 years4 years~~
~~- Definition~~

~~Share-Based Compensation Arrangement By Share-Based Payment Award, Forfeiture Rate~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:lxfr_ShareBasedCompensationArrangementByShareBasedPaymentAwardForfeitureRate Namespace Prefix:lxfr_ Data Type:dtr-types1:percentItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Agreed-upon price for the exchange of the underlying asset relating to the share-based payment award.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsExercisePrice Namespace Prefix:us-gaap_ Data Type: dtr-types:perShareItemType Balance Type:na Period Type:instant~~

~~- Definition~~

~~The estimated dividend rate (a percentage of the share price) to be paid (expected dividends) to holders of the underlying shares over the option's term.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2~~

~~+ Details~~
~~Name:us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsExpectedDividendRate Namespace Prefix:us-gaap_ Data Type: dtr-types:percentItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~The estimated measure of the maximum percentage by which a share price is expected to fluctuate during a period. Volatility also may be defined as a probability-weighted measure of the dispersion of returns about the mean. The volatility of a share price is the standard deviation of the continuously compounded rates of return on the share over a specified period. That is the same as the standard deviation of the differences in the natural logarithms of the stock prices plus dividends, if any, over the period.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsExpectedVolatilityRateMaximum Namespace Prefix:us-gaap_ Data Type:dtr-types:percentItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~The estimated measure of the minimum percentage by which a share price is expected to fluctuate during a period. Volatility also may be defined as a probability-weighted measure of the dispersion of returns about the mean. The volatility of a share price is the standard deviation of the continuously compounded rates of return on the share over a specified period. That is the same as the standard deviation of the differences in the natural logarithms of the stock prices plus dividends, if any, over the period.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsExpectedVolatilityRateMinimum Namespace Prefix:us-gaap_ Data Type:dtr-types:percentItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~The maximum risk-free interest rate assumption that is used in valuing an option on its own shares.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsRiskFreeInterestRateMaximum Namespace Prefix:us-gaap_ Data Type:dtr-types:percentItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~The minimum risk-free interest rate assumption that is used in valuing an option on its own shares.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsRiskFreeInterestRateMinimum Namespace Prefix:us-gaap_ Data Type:dtr-types:percentItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 35 -Paragraph 1D -Publisher FASB -URI https://asc.fasb.org/1943274/2147480483/718-10-35-1DReference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 35 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480483/718-10-35-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(01) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(02) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(01) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(02) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(iv) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(v) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2~~

~~+ Details~~

~~Name:us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardLineItems Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Expected term of award under share-based payment arrangement, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2~~

~~+ Details~~

~~Name:us-gaap_SharebasedCompensationArrangementBySharebasedPaymentAwardFairValueAssumptionsExpectedTerm1 Namespace Prefix:us-gaap_ Data Type:xbrli:durationItemType Balance Type:na Period Type:duration~~

~~- Details~~

~~Name:srt_RangeAxis=srt_MinimumMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~

~~- Details~~

~~Name:srt_RangeAxis=srt_MaximumMember Namespace Prefix: Data Type:na Balance Type: Period Type: XML 119 R66.htm IDEA: XBRL DOCUMENT~~

~~Shareholders' Equity - Schedule of Dividend Paid and Proposed (Details) - USD ($) $ / shares in Units, $ in Millions~~ ~~Aug. 07, 2024~~ ~~May 08, 2024~~ ~~Feb. 07, 2024~~ ~~Aug. 02, 2023~~ ~~May 03, 2023~~ ~~Feb. 01, 2023~~ ~~Jul. 08, 2024~~ ~~Dec. 31, 2023~~

~~Class of Stock [Line Items] Dividends paid (in USD per share) $ 0.130$ 0.130$ 0.130$ 0.130$ 0.130 Dividend payable $ 0.0Subsequent event Class of Stock [Line Items] Dividends paid (in USD per share)$ 0.130 Dividend payable $ 3.5~~

~~- Definition~~

~~Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 2: http://www.xbrl.org/2003/role/recommendedDisclosureRef -Topic 272 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483014/272-10-45-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 272 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482987/272-10-50-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-14Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-18Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(27)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(2)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(2)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3~~

~~+ Details~~
~~Name:us-gaap_ClassOfStockLineItems Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Aggregate dividends paid during the period for each share of common stock outstanding.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1~~

~~+ Details~~
~~Name:us-gaap_CommonStockDividendsPerShareCashPaid Namespace Prefix:us-gaap_ Data Type:dtr-types:perShareItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Carrying value as of the balance sheet date of dividends declared but unpaid on equity securities issued by the entity and outstanding. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer).~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1~~

~~+ Details~~
~~Name:us-gaap_DividendsPayableCurrent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- Details~~
~~Name:us-gaap_SubsequentEventTypeAxis=us-gaap_SubsequentEventMember Namespace Prefix: Data Type:na Balance Type: Period Type: XML 120 R67.htm IDEA: XBRL DOCUMENT~~
~~Segmental Information - Additional Information (Details)6 Months Ended~~
~~Jun. 30, 2024~~
~~segment~~
~~businessUnit~~
~~Segment Reporting [Abstract] Number of operating divisions | businessUnit5Number of reportable segments3Number of discontinued operations1~~
~~- Definition~~

~~Number of Discontinued Operations~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:lxfr_NumberOfDiscontinuedOperations Namespace Prefix:lxfr_ Data Type:xbrli:integerItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Number of segments reported by the entity. A reportable segment is a component of an entity for which there is an accounting requirement to report separate financial information on that component in the entity's financial statements.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 47 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-47Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 54 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-54Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-18~~

~~+ Details~~
~~Name:us-gaap_NumberOfReportableSegments Namespace Prefix:us-gaap_ Data Type:xbrli:integerItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Number of reporting units tested for impairment of goodwill. A reporting unit is an operating segment or one level below an operating segment.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:us-gaap_NumberOfReportingUnits Namespace Prefix:us-gaap_ Data Type:xbrli:integerItemType Balance Type:na Period Type:duration~~

~~- References~~

~~No definition available.~~

~~+ Details~~
~~Name:us-gaap_SegmentReportingAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration XML 121 R68.htm IDEA: XBRL DOCUMENT~~
~~Segmental Information - Financial Information by Reportable Segment (Details) - USD ($) $ in Millions3 Months Ended6 Months Ended~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Dec. 31, 2023~~
~~Segment Reporting Information [Line Items] Net sales$ 99.7$ 110.4$ 189.1$ 211.7 Adjusted EBITDA17.414.426.225.7 Depreciation and amortization2.53.34.96.6 Restructuring charges1.12.51.82.8 Total assets379.8 379.8 $ 372.1Capital expenditures2.83.24.35.1 Discontinued operations Segment Reporting Information [Line Items] Total assets7.5 7.5 7.8Capital expenditures0.00.20.00.1 Gas Cylinders segment Segment Reporting Information [Line Items] Net sales49.848.595.290.0 Elektron segment Segment Reporting Information [Line Items] Net sales42.053.079.7105.4 Graphic Arts Segment Reporting Information [Line Items] Net sales7.98.914.2 16.3 Operating segments | Gas Cylinders segment Segment Reporting Information [Line Items] Net sales49.848.595.290.0 Adjusted EBITDA4.94.99.07.4 Depreciation and amortization0.91.01.72.1 Restructuring charges1.12.51.62.8 Total assets136.7 136.7 131.0Capital expenditures1.30.32.10.6 Operating segments | Elektron segment Segment Reporting Information [Line Items] Net sales42.053.079.7105.4 Adjusted EBITDA12.49.518.819.0 Depreciation and amortization1.61.83.23.5 Restructuring charges0.00.00.20.0 Total assets167.7 167.7 162.4Capital expenditures1.42.32.13.9 Operating segments | Graphic Arts Segment Reporting Information [Line Items] Net sales7.98.914.216.3 Adjusted EBITDA0.10.0(1.6)(0.7) Depreciation and amortization0.0(0.5)0.0(1.0) Restructuring charges0.00.00.00.0 Total assets14.7 14.7 19.6Capital expenditures0.10.40.10.5 Other Segment Reporting Information [Line Items] Total assets53.2 53.2 $ 51.3Capital expenditures$ 0.0$ 0.0$ 0.0$ 0.0~~
~~- Definition~~

~~Adjusted EBITDA~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:lxfr_AdjustedEBITDA Namespace Prefix:lxfr_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Definition~~

~~Capital Expenditure, Cash And Noncash~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:lxfr_CapitalExpenditureCashAndNoncash Namespace Prefix:lxfr_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Definition~~

~~Amount of asset recognized for present right to economic benefit.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 5: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards~~

~~***Codification -Section 45 -Paragraph 25 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-25Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 12: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 13: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(12)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 18: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 19: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7Reference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 30: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(11)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1***~~

~~***+ Details***~~

~~***Name:us-gaap_Assets Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant***~~

~~***- Definition***~~

~~***The aggregate expense recognized in the current period that allocates the cost of tangible assets, intangible assets, or depleting assets to periods that benefit from use of the assets.***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -***~~

~~***Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22***~~

~~***+ Details***~~

~~***Name:us-gaap_DepreciationDepletionAndAmortization Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration***~~

~~***- Definition***~~

~~***Amount of expenses associated with exit or disposal activities pursuant to an authorized plan. Excludes expenses related to a discontinued operation or an asset retirement obligation.***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.b.1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482047/420-10-45-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 5.P.3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-1***~~

~~***+ Details***~~

~~***Name:us-gaap_RestructuringCharges***~~ ~~***Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration***~~

~~***- Definition***~~

~~***Amount, excluding tax collected from customer, of revenue from satisfaction of performance obligation by transferring promised good or service to customer. Tax collected from customer is tax assessed by governmental authority that is both imposed on and concurrent with specific revenue-producing transaction, including, but not limited to, sales, use, value added and excise.***~~

~~***+ References***~~

~~***Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-41Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 4: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 5: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 924 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 11.L) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479941/924-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-5Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-42Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-40Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-4***~~

~~+ Details~~
~~Name:us-gaap_RevenueFromContractWithCustomerExcludingAssessedTax Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type: duration~~

~~- Definition~~

~~Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:us-gaap_SegmentReportingInformationLineItems Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Details~~
~~Name:us-gaap_StatementOperatingActivitiesSegmentAxis=us-gaap_SegmentDiscontinuedOperationsMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~
~~- Details~~
~~Name:us-gaap_StatementBusinessSegmentsAxis=lxfr_GasCylindersSegmentMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~
~~- Details~~
~~Name:us-gaap_StatementBusinessSegmentsAxis=lxfr_ElektronSegmentMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~
~~- Details~~
~~Name:us-gaap_StatementBusinessSegmentsAxis=lxfr_GraphicArtsMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~
~~- Details~~
~~Name:srt_ConsolidationItemsAxis=us-gaap_OperatingSegmentsMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~
~~- Details~~
~~Name:srt_ConsolidationItemsAxis=us-gaap_CorporateNonSegmentMember Namespace Prefix: Data Type:na Balance Type: Period Type: XML 122 R69.htm IDEA: XBRL DOCUMENT~~
~~Segmental Information - Geographic Information by Region (Details) - USD ($) $ in MillionsJun. 30, 2024Dec. 31, 2023Revenues from External Customers and Long-Lived Assets [Line Items] Property, plant and equipment, net$ 63.1$ 63.8U.S. Revenues from External Customers and Long-Lived Assets [Line Items] Property, plant and equipment, net26.826.8United Kingdom Revenues from External Customers and Long-Lived Assets [Line Items] Property, plant and equipment, net32.032.8Canada Revenues from External Customers and Long-Lived Assets [Line Items] Property, plant and equipment, net3.02.9Rest of Europe Revenues from External Customers and Long-Lived Assets [Line Items] Property, plant and equipment, net1.01.0Asia Pacific Revenues from External Customers and Long-Lived Assets [Line Items] Property, plant and equipment, net$ 0.3$ 0.3~~
~~- Definition~~

~~Amount after accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business to produce goods and services and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-7AReference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 360 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478451/942-360-50-1~~

~~+ Details~~
~~Name:us-gaap_PropertyPlantAndEquipmentNet Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:instant~~

~~- Definition~~

~~Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:us-gaap_RevenuesFromExternalCustomersAndLongLivedAssetsLineItems Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type: duration~~

~~- Details~~
~~Name:srt_StatementGeographicalAxis=country_US Namespace Prefix: Data Type:na Balance Type: Period Type:~~
~~- Details~~
~~Name:srt_StatementGeographicalAxis=country_GB Namespace Prefix: Data Type:na Balance Type: Period Type:~~
~~- Details~~
~~Name:srt_StatementGeographicalAxis=country_CA Namespace Prefix: Data Type:na Balance Type: Period Type:~~
~~- Details~~
~~Name:srt_StatementGeographicalAxis=lxfr_RestOfEuropeMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~
~~- Details~~
~~Name:srt_StatementGeographicalAxis=srt_AsiaPacificMember Namespace Prefix: Data Type:na Balance Type: Period Type: XML 123 R70.htm IDEA: XBRL DOCUMENT~~
~~Segmental Information - Reconciliation of Consolidated Segment Income (Details) - USD ($) $ in Millions3 Months Ended6 Months Ended~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Segment Reporting [Abstract]   Adjusted EBITDA$ 17.4$ 14.4$ 26.2$ 25.7Other share-based compensation charges(0.8)(0.7)(1.4)(1.3)Depreciation and amortization(2.5)(3.3)(4.9)(6.6)Restructuring charges(1.1)(2.5)(1.8)(2.8)Acquisition and disposal related costs(9.2)0.0(9.4)0.0Defined benefits pension credit / (charge)0.20.60.5(8.3)Interest expense, net(1.3)(1.8)(2.7)(3.1)Net income before income taxes from continuing operations$ 2.7$ 6.7$ 6.5$ 3.6~~
~~- Definition~~

~~Adjusted EBITDA~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:lxfr_AdjustedEBITDA Namespace Prefix:lxfr_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Definition~~

~~Allocated Share-based Compensation Expense, Other~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:lxfr_AllocatedSharebasedCompensationExpenseOther Namespace Prefix:lxfr_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Disposal Group, Not Discontinued Operation, Disposal Cost And Loss (Gain) On Write-Down~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:lxfr_DisposalGroupNotDiscontinuedOperationDisposalCostAndLossGainOnWriteDown Namespace Prefix:lxfr_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~The aggregate expense recognized in the current period that allocates the cost of tangible assets, intangible assets, or depleting assets to periods that benefit from use of the assets.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name~~

~~***Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22***~~

~~***+ Details***~~

~~***Name:us-gaap_DepreciationDepletionAndAmortization Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration***~~

~~***- Definition***~~

~~***Amount, before tax, of income (loss) attributable to noncontrolling interest. Includes, but is not limited to, income (loss) from continuing operations, discontinued operations and equity method investments.***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6***~~

~~***+ Details***~~

~~***Name:us-gaap_IncomeLossAttributableToNoncontrollingInterest Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration***~~

~~***- Definition***~~

~~***Amount of interest income (expense) classified as operating.***~~

~~***+ References***~~

~~***Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(10)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1***~~

~~+ Details~~
~~Name:us-gaap_InterestIncomeExpenseNet Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Definition~~

~~Amount of expense (reversal of expense) for net periodic benefit cost components, excluding service cost component, of defined benefit plan. Amount includes, but is not limited to, interest cost, expected (return) loss on plan asset, amortization of prior service cost (credit), amortization of (gain) loss, amortization of transition (asset) obligation, settlement (gain) loss, curtailment (gain) loss and certain termination benefits.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 3A -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480535/715-20-45-3A~~

~~+ Details~~
~~Name:us-gaap_NetPeriodicDefinedBenefitsExpenseReversalOfExpenseExcludingServiceCostComponent Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Amount of expenses associated with exit or disposal activities pursuant to an authorized plan. Excludes expenses related to a discontinued operation or an asset retirement obligation.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.b.1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482047/420-10-45-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 5.P.3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-1~~

~~+ Details~~
~~Name:us-gaap_RestructuringCharges Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- References~~

~~No definition available.~~

~~+ Details~~
~~Name:us-gaap_SegmentReportingAbstract Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration XML 124 R71.htm IDEA: XBRL DOCUMENT~~
~~Segmental Information - Geographic Information by Region (Details) - USD ($) $ in Millions3 Months Ended6 Months Ended~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Jun. 30, 2024~~
~~Jul. 02, 2023~~
~~Revenues from External Customers and Long-Lived Assets [Line Items] Net sales$ 99.7$ 110.4$ 189.1$ 211.7Top five countries Revenues from External Customers and Long-Lived Assets [Line Items] Net sales$ 78.6$ 86.5$ 149.2$ 162.4Top five countries | Revenue from Contract with Customer Benchmark | Geographic Concentration Risk Revenues from External Customers and Long-Lived Assets [Line Items] Concentration risk, percentage78.90%78.40%78.90%76.70%United States Revenues from External Customers and Long-Lived Assets [Line Items] Net sales$ 57.3$ 67.8$ 110.5$ 125.5United States | Revenue from Contract with Customer Benchmark | Geographic Concentration Risk Revenues from External Customers and Long-Lived Assets [Line Items] Concentration risk, percentage57.60%61.50%58.40%59.30%Germany Revenues from External Customers and Long-Lived Assets [Line Items] Net sales$ 7.2$ 3.8$ 12.6$ 10.1Germany | Revenue from Contract with Customer Benchmark | Geographic Concentration Risk Revenues from External Customers and Long-Lived Assets [Line Items] Concentration risk, percentage7.20%3.40%6.70%4.80%United~~

~~Kingdom — Revenues from External Customers and Long-Lived Assets [Line Items] — Net sales$ 6.3$ 5.2$ 10.6$ 10.8United Kingdom | Revenue from Contract with Customer Benchmark | Geographic Concentration Risk — Revenues from External Customers and Long-Lived Assets [Line Items] — Concentration risk, percentage6.30%4.70%5.60% 5.10%Japan — Revenues from External Customers and Long-Lived Assets [Line Items] — Net sales$ 5.0$ 6.3$ 9.0$ 10.8Japan | Revenue from Contract with Customer Benchmark | Geographic Concentration Risk — Revenues from External Customers and Long-Lived Assets [Line Items] — Concentration risk, percentage5.00%5.70%4.80% 5.10%Canada — Revenues from External Customers and Long-Lived Assets [Line Items] — Net sales$ 2.8$ 3.4$ 6.5$ 5.2Canada | Revenue from Contract with Customer Benchmark | Geographic Concentration Risk — Revenues from External Customers and Long-Lived Assets [Line Items] — Concentration risk, percentage2.80%3.10%3.40% 2.50%Rest of Europe — Revenues from External Customers and Long-Lived Assets [Line Items] — Net sales$ 12.3$ 11.7$ 24.4$ 24.7Rest of Europe | Revenue from Contract with Customer Benchmark | Geographic Concentration Risk — Revenues from External Customers and Long-Lived Assets [Line Items] — Concentration risk, percentage12.30% 10.60%13.00%11.70%Asia Pacific — Revenues from External Customers and Long-Lived Assets [Line Items] — Net sales$ 6.7$ 8.3$ 10.3$ 17.3Asia Pacific | Revenue from Contract with Customer Benchmark | Geographic Concentration Risk — Revenues from External Customers and Long-Lived Assets [Line Items] — Concentration risk, percentage6.70%7.50%5.40%8.20%Other — Revenues from External Customers and Long-Lived Assets [Line Items] — Net sales$ 2.1$ 3.9$ 5.2$ 7.3Other | Revenue from Contract with Customer Benchmark | Geographic Concentration Risk — Revenues from External Customers and Long-Lived Assets [Line Items] — Concentration risk, percentage2.10%3.50%2.70%3.40%~~

~~- Definition~~

~~For an entity that discloses a concentration risk in relation to quantitative amount, which serves as the "benchmark" (or denominator) in the equation, this concept represents the concentration percentage derived from the division.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-42Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 825 -SubTopic 10 -Section 50 -Paragraph 21 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-21Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 825 -SubTopic 10 -Section 50 -Paragraph 20 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-20Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 18 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-18Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 20 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-20~~

~~+ Details~~

~~Name:us-gaap_ConcentrationRiskPercentage1 Namespace Prefix:us-gaap_ Data Type:dtr-types:percentItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Amount, excluding tax collected from customer, of revenue from satisfaction of performance obligation by transferring promised good or service to customer. Tax collected from customer is tax assessed by governmental authority that is both imposed on and concurrent with specific revenue-producing transaction, including, but not limited to, sales, use, value added and excise.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-41Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 4: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 5: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 924 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 11.L) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479941/924-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-5Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-42Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-40Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-4~~

~~+ Details~~
~~Name:us-gaap_RevenueFromContractWithCustomerExcludingAssessedTax Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type: duration~~

~~- Definition~~

~~Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:us-gaap_RevenuesFromExternalCustomersAndLongLivedAssetsLineItems Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type: duration~~

~~- Details~~
~~Name:srt_StatementGeographicalAxis=lxfr_TopFiveCountriesMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~
~~- Details~~
~~Name:us-gaap_ConcentrationRiskByBenchmarkAxis=us-gaap_RevenueFromContractWithCustomerMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~
~~- Details~~
~~Name:us-gaap_ConcentrationRiskByTypeAxis=us-gaap_GeographicConcentrationRiskMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~
~~- Details~~
~~Name:srt_StatementGeographicalAxis=country_US Namespace Prefix: Data Type:na Balance Type: Period Type:~~
~~- Details~~
~~Name:srt_StatementGeographicalAxis=country_DE Namespace Prefix: Data Type:na Balance Type: Period Type:~~
~~- Details~~
~~Name:srt_StatementGeographicalAxis=country_GB Namespace Prefix: Data Type:na Balance Type: Period Type:~~
~~- Details~~
~~Name:srt_StatementGeographicalAxis=country_JP Namespace Prefix: Data Type:na Balance Type: Period Type:~~
~~- Details~~
~~Name:srt_StatementGeographicalAxis=country_CA Namespace Prefix: Data Type:na Balance Type: Period Type:~~
~~- Details~~
~~Name:srt_StatementGeographicalAxis=lxfr_RestOfEuropeMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~
~~- Details~~
~~Name:srt_StatementGeographicalAxis=srt_AsiaPacificMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~
~~- Details~~
~~Name:srt_StatementGeographicalAxis=lxfr_OtherGeographicRegionMember Namespace Prefix: Data Type:na Balance Type: Period Type: XML 125 R72.htm IDEA: XBRL DOCUMENT~~
~~Commitments and Contingencies - Additional Information (Details) $ in Millions 1 Months Ended 3 Months Ended 6 Months Ended~~
~~Jul. 31, 2024~~
~~USD ($)~~
~~Jun. 30, 2024~~
~~USD ($)~~
~~Jul. 02, 2023~~
~~USD ($)~~
~~Jun. 30, 2024~~
~~USD ($)~~
~~lawsuit~~
~~fatality~~
~~Jul. 02, 2023~~
~~USD ($)~~
~~Dec. 31, 2023~~
~~USD ($)~~
~~Loss Contingencies [Line Items] Number of fatalities | fatality 1 Number of lawsuits | lawsuit 3 Number of lawsuits administratively consolidated | lawsuit 3 Ongoing number of lawsuits | lawsuit 2 Other income $ 5.1$ 0.0$ 5.3$ 0.0 Insurance recoveries $ 4.5 Subsequent event Loss Contingencies [Line Items] Insurance recoveries $ 0.8 Disposal Company Loss Contingencies [Line Items] Number of lawsuits | lawsuit 1 Estate of Dependent Loss Contingencies [Line Items] Number of lawsuits | lawsuit 1 Injured Employee Loss Contingencies [Line Items] Number of lawsuits | lawsuit 1 Revolving credit facility Loss Contingencies [Line Items] Drawn 49.3 $ 49.3 $ 43.1 Uncommitted accordion facility 25.0 25.0 25.0 Committed Banking Facilities Loss Contingencies [Line Items] Facility 125.0 125.0 125.0 Drawn $ 49.3 $ 49.3 $ 43.1~~
~~- Definition~~

~~Line of Credit Facility, Accordion Feature, Increase Limit~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:lxfr_LineOfCreditFacilityAccordionFeatureIncreaseLimit Namespace Prefix:lxfr_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- Definition~~

~~Number Of Fatalities~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:lxfr_NumberOfFatalities Namespace Prefix:lxfr_ Data Type:xbrli:integerItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Number Of Lawsuits~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:lxfr_NumberOfLawsuits Namespace Prefix:lxfr_ Data Type:xbrli:integerItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Number of Lawsuits Administratively Consolidated~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:lxfr_NumberOfLawsuitsAdministrativelyConsolidated Namespace Prefix:lxfr_ Data Type:xbrli:integerItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Ongoing Number of Lawsuits~~

~~***+ References***~~

~~***No definition available.***~~

~~***+ Details***~~
~~***Name:lxfr_OngoingNumberOfLawsuits Namespace Prefix:lxfr_ Data Type:xbrli:integerItemType Balance Type:na Period Type:duration***~~

~~***- Definition***~~

~~***Amount, before unamortized (discount) premium and debt issuance costs, of long-term debt. Includes, but is not limited to, notes payable, bonds payable, commercial loans, mortgage loans, convertible debt, subordinated debt and other types of debt.***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(16)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (b)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-4***~~

~~***+ Details***~~
~~***Name:us-gaap_DebtInstrumentCarryingAmount Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant***~~

~~***- Definition***~~

~~***The amount recovered from insurance. These recoveries reduce costs and losses that are reported as a separate line item under operating expenses.***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2***~~

~~***+ Details***~~
~~***Name:us-gaap_InsuranceRecoveries Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration***~~

~~***- Definition***~~

~~***Maximum borrowing capacity under the credit facility without consideration of any current restrictions on the amount that could be borrowed or the amounts currently outstanding under the facility.***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1***~~

~~***+ Details***~~
~~***Name:us-gaap_LineOfCreditFacilityMaximumBorrowingCapacity Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant***~~

~~***- Definition***~~

~~***Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table.***~~

~~***+ References***~~

~~***Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph***~~

~~***(a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483076/450-20-50-4Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483076/450-20-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 720 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483359/720-20-50-1Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 27 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482395/460-10-55-27Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483076/450-20-50-9Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483076/450-20-50-4Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483076/450-20-50-1***~~

~~***+ Details***~~

~~***Name:us-gaap_LossContingenciesLineItems Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration***~~

~~***- Definition***~~

~~***Amount of revenue earned, classified as other, excluding interest income.***~~

~~***+ References***~~

~~***Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(13)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(1)(e)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2***~~

~~+ Details~~
~~Name:us-gaap_NoninterestIncomeOtherOperatingIncome Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Details~~
~~Name:us-gaap_SubsequentEventTypeAxis=us-gaap_SubsequentEventMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~

~~- Details~~
~~Name:srt_CounterpartyNameAxis=lxfr_DisposalCompanyMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~

~~- Details~~
~~Name:srt_CounterpartyNameAxis=lxfr_EstateOfDependentMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~

~~- Details~~
~~Name:srt_CounterpartyNameAxis=lxfr_InjuredEmployeeMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~

~~- Details~~
~~Name:us-gaap_CreditFacilityAxis=us-gaap_RevolvingCreditFacilityMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~

~~- Details~~
~~Name:us-gaap_DebtInstrumentAxis=lxfr_CommittedBankingFacilitiesMember Namespace Prefix: Data Type:na Balance Type: Period Type: XML 126 R73.htm IDEA: XBRL DOCUMENT~~

~~Commitments and Contingencies - Schedule of Uncommitted Facilities (Details) - USD ($) $ in MillionsJun. 30, 2024Dec. 31, 2023Overdraft Loss Contingencies [Line Items] Facility$ 7.8$ 7.8Drawn0.24.6Bond and Guarantees Loss Contingencies [Line Items] Facility0.60.6Drawn0.10.2Letters of Credit Loss Contingencies [Line Items] Facility4.0 4.0Drawn2.22.2Bonding facility for bank guarantees, letter of credit and bank overdrafts Loss Contingencies [Line Items] Facility12.412.4Drawn$ 2.5$ 7.0~~

~~- Definition~~

~~Amount, before unamortized (discount) premium and debt issuance costs, of long-term debt. Includes, but is not limited to, notes payable, bonds payable, commercial loans, mortgage loans, convertible debt, subordinated debt and other types of debt.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(16)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (b)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-4~~

~~+ Details~~
~~Name:us-gaap_DebtInstrumentCarryingAmount Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- Definition~~

~~Maximum borrowing capacity under the credit facility without consideration of any current restrictions on the amount that could be borrowed or the amounts currently outstanding under the facility.~~

~~+ References~~

~~Reference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1~~

~~+ Details~~
~~Name:us-gaap_LineOfCreditFacilityMaximumBorrowingCapacity Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:instant~~

~~- Definition~~

~~Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph~~

~~(a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483076/450-20-50-4Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483076/450-20-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 720 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483359/720-20-50-1Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 27 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482395/460-10-55-27Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483076/450-20-50-9Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483076/450-20-50-4Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483076/450-20-50-1~~

~~+ Details~~
~~Name:us-gaap_LossContingenciesLineItems Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Details~~
~~Name:us-gaap_CreditFacilityAxis=us-gaap_BankOverdraftsMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~
~~- Details~~
~~Name:us-gaap_DebtInstrumentAxis=lxfr_BondingFacilityForBankGuaranteesMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~
~~- Details~~
~~Name:us-gaap_DebtInstrumentAxis=us-gaap_LetterOfCreditMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~
~~- Details~~
~~Name:us-gaap_DebtInstrumentAxis=lxfr_BondingFacilityForBankGuaranteesLetterOfCreditAndBankOverdraftsMember Namespace Prefix: Data Type:na Balance Type: Period Type: XML 127 R74.htm IDEA: XBRL DOCUMENT~~
~~Pension Settlement (Details) $ in Millions3 Months Ended~~
~~Apr. 02, 2023~~
~~USD ($)~~
~~U.S. Defined Benefit Plan Disclosure [Line Items] Pension charge$ 9.2Pension charge, cash2.3Derecognition of pension liability6.9Foreign plan Defined Benefit Plan Disclosure [Line Items] Defined benefit pension credit$ 0.3~~
~~- Definition~~

~~Pension And Other Postretirement Benefits Contributions, Cash~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:lxfr_PensionAndOtherPostretirementBenefitsContributionsCash Namespace Prefix:lxfr_ Data Type:xbrli:monetaryItemType Balance Type:credit Period Type:duration~~

~~- Definition~~

~~Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:us-gaap_DefinedBenefitPlanDisclosureLineItems Namespace Prefix:us-gaap_ Data Type:xbrli:stringItemType Balance Type:na Period Type:duration~~

~~- Definition~~

~~Amount of decrease in benefit obligation of defined benefit plan from disposal or classification as held-for-sale.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a)(9) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480506/715-20-50-1~~

~~+ Details~~
~~Name:us-gaap_DefinedBenefitPlanDivestituresBenefitObligation Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Amount of net periodic benefit cost (credit) for defined benefit plan.~~

~~+ References~~

~~Reference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 17 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480482/715-20-55-17Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 18 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480482/715-20-55-18Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480506/715-20-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480506/715-20-50-6~~

~~+ Details~~
~~Name:us-gaap_DefinedBenefitPlanNetPeriodicBenefitCost Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Definition~~

~~Amount of cost (reversal of cost) for pension and other postretirement benefits.~~

~~+ References~~

~~No definition available.~~

~~+ Details~~
~~Name:us-gaap_PensionAndOtherPostretirementBenefitExpense Namespace Prefix:us-gaap_ Data Type:xbrli:monetaryItemType Balance Type:debit Period Type:duration~~

~~- Details~~
~~Name:us-gaap_RetirementPlanSponsorLocationAxis=country_US Namespace Prefix: Data Type:na Balance Type: Period Type:~~

~~- Details~~
~~Name:us-gaap_RetirementPlanSponsorLocationAxis=us-gaap_ForeignPlanMember Namespace Prefix: Data Type:na Balance Type: Period Type:~~ ~~EXCEL 128 Financial_Report.xlsx IDEA: XBRL DOCUMENT begin 644 Financial_Report.xlsx M4$L#!!0 (/N$_E@'04UB@0 +$ 0 9&]C4')O<',O87!P+GAM M;$V./0L",1!$_\IQO;=!P4)B0-!2L+
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of the U.S. Securities and Exchange Commission. Data and content created by government employees within the scope of their employment are not subject to domestic
copyright protection. 17 U.S.C. 105. var Show={};Show.LastAR=null,Show.showAR=function(a,r,w){if(Show.LastAR)Show.hideAR();var
e=a;while(e&&e.nodeName!='TABLE')e=e.nextSibling;if(!e||e.nodeName!='TABLE'){var ref=((window)?w.document:document).getElementById(r);if(ref){e=ref.cloneNode(!0);
e.removeAttribute('id');a.parentNode.appendChild(e)}} if(e)e.style.display='block';Show.LastAR=e};Show.hideAR=function()
{Show.LastAR.style.display='none'};Show.toggleNext=function(a){var e=a;while(e.nodeName!='DIV')e=e.nextSibling;if(!e.style){}else if(!e.style.display){}else{var
d,p_;if(e.style.display=='none'){d='block';p='-'}else{d='none';p='+'} e.style.display=d;if(a.textContent)
{a.textContent=p+a.textContent.substring(1)}else{a.innerText=p+a.innerText.substring(1)}}} XML 130 report.css IDEA: XBRL DOCUMENT /* Updated 2009-11-04 */ /*
v2.2.0.24 */ /* DefRef Styles */ .report table.authRefData{ background-color: #def; border: 2px solid #2F4497; font-size: 1em; position: absolute; } .report table.authRefData a
{ display: block; font-weight: bold; } .report table.authRefData p { margin-top: 0px; } .report table.authRefData .hide { background-color: #2F4497; padding: 1px 3px 0px 0px;
text-align: right; } .report table.authRefData .hide a:hover { background-color: #2F4497; } .report table.authRefData .body { height: 150px; overflow: auto; width: 400px; }
.report table.authRefData table{ font-size: 1em; } /* Report Styles */ .pl a, .pl a:visited { color: black; text-decoration: none; } /* table */ .report { background-color: white;
border: 2px solid #acf; clear: both; color: black; font: normal 8pt Helvetica, Arial, san-serif; margin-bottom: 2em; } .report hr { border: 1px solid #acf; } /* Top labels */ .report
th { background-color: #acf; color: black; font-weight: bold; text-align: center; } .report th.void { background-color: transparent; color: #000000; font: bold 10pt Helvetica,
Arial, san-serif; text-align: left; } .report .pl { text-align: left; vertical-align: top; white-space: normal; width: 200px; white-space: normal; /* word-wrap: break-word; */ } .report
td.pl a.a { cursor: pointer; display: block; width: 200px; overflow: hidden; } .report td.pl div.a { width: 200px; } .report td.pl a:hover { background-color: #ffc; } /* Header
rows... */ .report tr.rh { background-color: #acf; color: black; font-weight: bold; } /* Calendars... */ .report .rc { background-color: #f0f0f0; } /* Even rows... */ .report .re,
.report .reu { background-color: #def; } .report .reu td { border-bottom: 1px solid black; } /* Odd rows... */ .report .ro, .report .rou { background-color: white; } .report .rou td
{ border-bottom: 1px solid black; } .report .rou table td, .report .reu table td { border-bottom: 0px solid black; } /* styles for footnote marker */ .report .fn { white-space:
nowrap; } /* styles for numeric types */ .report .num, .report .nump { text-align: right; white-space: nowrap; } .report .nump { padding-left: 2em; } .report .nump { padding:
0px 0.4em 0px 2em; } /* styles for text types */ .report .text { text-align: left; white-space: normal; } .report .text .big { margin-bottom: 1em; width: 17em; } .report .text .more
{ display: none; } .report .text .note { font-style: italic; font-weight: bold; } .report .text .small { width: 10em; } .report sup { font-style: italic; } .report .outerFootnotes { font-
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Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer)." } } }, "auth_ref": ["r97"] }, "us-gaap_AccumulatedDepreciationDepletionAndAmortizationPropertyPlantAndEquipment": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AccumulatedDepreciationDepletionAndAmortizationPropertyPlantAndEquipment", "crdr": "credit", "calculation": { "http://www.luxfer.com/role/SupplementarybalancesheetinformationDetails": { "parentTag": "us-gaap_PropertyPlantAndEquipmentNet", "weight": -1.0, "order": 2.0 } }, "presentation": ["http://www.luxfer.com/role/SupplementarybalancesheetinformationDetails"], "lang": { "en-us": { "role": { "negatedTerseLabel": "Accumulated depreciation and impairment", "label": "Accumulated Depreciation, Depletion and Amortization, Property, Plant, and Equipment", "documentation": "Amount of accumulated depreciation, depletion and amortization for physical assets used in the normal conduct of business to produce goods and services." } } }, "auth_ref": ["r41", "r227", "r694"] }, "us-gaap_AccumulatedOtherComprehensiveIncomeLossLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AccumulatedOtherComprehensiveIncomeLossLineItems", "presentation": ["http://www.luxfer.com/role/OtherIncomeDetails"], "lang": { "en-us": { "role": { "terseLabel": "Accumulated Other Comprehensive Income (Loss) [Line Items]", "label": "Accumulated Other Comprehensive Income (Loss) [Line Items]", "documentation": "Line items represent financial concepts included in a table. 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Includes, but is not limited to, additional paid-in capital (APIC) for common and preferred stock." } } }, "auth_ref": ["r107", "r891", "r1180"] }, "us-gaap_AdditionalPaidInCapitalMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AdditionalPaidInCapitalMember", "presentation": ["http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCHANGESINEQUITYUNAUDITED"], "lang": { "en-us": { "role": { "terseLabel": "Additional paid-in capital", "label": "Additional Paid-in Capital [Member]", "documentation": "Excess of issue price over par or stated value of the entity's capital stock and amounts received from other transactions involving the entity's stock or stockholders." } } }, "auth_ref": ["r738", "r1038", "r1039", "r1040", "r1041", "r1129", "r1181"] }, "ecd_AdjToCompAmt": { "xbrltype": "monetaryItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "AdjToCompAmt", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Adjustment to Compensation, Amount", "label": "Adjustment to Compensation Amount" } } }, "auth_ref": ["r966"] }, "ecd_AdjToCompAxis": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "AdjToCompAxis", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Adjustment to Compensation:", "label": "Adjustment to Compensation [Axis]" } } }, "auth_ref": ["r966"] }, "ecd_AdjToNonPeoNeoCompFnTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "AdjToNonPeoNeoCompFnTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Adjustment to Non-PEO NEO Compensation Footnote", "label": "Adjustment to Non-PEO NEO Compensation Footnote [Text Block]" } } }, "auth_ref": ["r966"] }, "ecd_AdjToPeoCompFnTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "AdjToPeoCompFnTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Adjustment To PEO Compensation, Footnote", "label": "Adjustment To PEO Compensation, Footnote [Text Block]" } } }, "auth_ref": ["r966"] }, "lxfr_AdjustedEBITDA": { "xbrltype": "monetaryItemType", "nsuri": "http://www.luxfer.com/20240630", "localname": "AdjustedEBITDA", "crdr": "credit", "presentation": ["http://www.luxfer.com/role/SegmentalInformationFinancialInformationbyReportableSegmentDetails", "http://www.luxfer.com/role/SegmentalInformationReconciliationofConsolidatedSegmentIncomeDetails"], "lang": { "en-us": { "role": { "verboseLabel": "Adjusted EBITDA", "terseLabel": "Adjusted EBITDA", "label": "Adjusted EBITDA", "documentation": "Adjusted EBITDA" } } }, "auth_ref": [] }, "us-gaap_AdjustmentForAmortizationAbstract": {

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As a noncash expense, this element is added back to net income when calculating cash provided by or used in operations using the indirect method." } } }, "auth_ref": ["r13", "r356", "r362", "r863"] }, "srt_AsiaPacificMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "AsiaPacificMember", "presentation": ["http://www.luxfer.com/role/SegmentalInformationGeographicInformationbyRegionDetails", "http://www.luxfer.com/role/SegmentalInformationGeographicInformationbyRegionDetails_1"], "lang": { "en-us": { "role": { "terseLabel": "Asia Pacific", "label": "Asia Pacific [Member]", "documentation": "Region of Asia Pacific." } } }, "auth_ref": ["r1007", "r1008", "r1009", "r1010", "r1183", "r1184", "r1185", "r1186"] }, "us-gaap_AssetAcquisitionLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AssetAcquisitionLineItems", "presentation": ["http://www.luxfer.com/role/AcquisitionanddisposalrelatedcostsAdditionalInformationDetails", "http://www.luxfer.com/role/AcquisitionanddisposalrelatedcostsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Asset Acquisition [Line Items]", "label": "Asset Acquisition [Line Items]", "documentation": "Line items represent financial concepts included in a table. 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Overdrafts generally have a very short time frame for correction or repayment and are therefore more similar to short-term bank financing than trade financing." } } }, "auth_ref": ["r44", "r97"] }, "us-gaap_BankOverdraftsMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "BankOverdraftsMember", "presentation": ["http://www.luxfer.com/role/CommitmentsandContingenciesScheduleofUncommittedFacilitiesDetails", "http://www.luxfer.com/role/DebtScheduleofDebtOutstandingDetails"], "lang": { "en-us": { "role": { "terseLabel": "Overdraft", "label": "Bank Overdrafts [Member]", "documentation": "Excess drawing from an existing cash balance that is honored by the bank but is owed to the bank." } } }, "auth_ref": [] }, "us-gaap_BasisOfAccountingPolicyPolicyTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "BasisOfAccountingPolicyPolicyTextBlock", "presentation": ["http://www.luxfer.com/role/BasisofPresentationandResponsibilityforinterimFinancialStatementsPolicies"], "lang": { "en-us": { "role": { "terseLabel": "Basis of presentation", "label": "Basis of Accounting, Policy [Policy Text Block]", "documentation": "Disclosure of accounting policy for basis of accounting, or basis of presentation, used to prepare the financial statements (for example, US Generally Accepted Accounting Principles, Other Comprehensive Basis of Accounting, IFRS)." } } }, "auth_ref": [] }, "lxfr_BondingFacilityForBankGuaranteesLetterOfCreditAndBankOverdraftsMember": { "xbrltype": "domainItemType", "nsuri": "http://www.luxfer.com/20240630", "localname": "BondingFacilityForBankGuaranteesLetterOfCreditAndBankOverdraftsMember", "presentation": ["http://www.luxfer.com/role/CommitmentsandContingenciesScheduleofUncommittedFacilitiesDetails"], "lang": { "en-us": { "role": { "terseLabel": "Bonding facility for bank guarantees, letter of credit and bank overdrafts", "label": "Bonding Facility For Bank Guarantees, Letter of Credit And Bank Overdrafts [Member]", "documentation": "Bonding Facility For Bank Guarantees, Letter of Credit And Bank Overdrafts" } } }, "auth_ref": [] }, "lxfr_BondingFacilityForBankGuaranteesMember": { "xbrltype": "domainItemType", "nsuri": "http://www.luxfer.com/20240630", "localname": "BondingFacilityForBankGuaranteesMember", "presentation": ["http://www.luxfer.com/role/CommitmentsandContingenciesScheduleofUncommittedFacilitiesDetails"], "lang": { "en-us": { "role": { "terseLabel": "Bond and Guarantees", "label": "Bonding Facility For Bank Guarantees [Member]", "documentation": "Bonding Facility For Bank Guarantees [Member]" } } }, "auth_ref": [] }, "us-gaap_BusinessCombinationDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "BusinessCombinationDisclosureTextBlock", "presentation": ["http://www.luxfer.com/role/Acquisitionanddisposalrelatedcosts"], "lang": { "en-us": { "role": { "verboseLabel": "Acquisition and disposal related costs", "label": "Business Combination Disclosure [Text Block]", "documentation": "The entire disclosure for a business combination (or series of individually immaterial business combinations) completed during the period, including background, timing, and recognized assets and liabilities. The disclosure may include leverage buyout transactions (as applicable)." } } }, "auth_ref": ["r155", "r599"] }, "us-gaap_BusinessCombinationsAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "BusinessCombinationsAbstract", "lang": { "en-us": { "role": { "terseLabel": "Business Combinations [Abstract]", "label": "Business Combinations [Abstract]" } } }, "auth_ref": [] }, "country_CA": { "xbrltype": "domainItemType", "nsuri": "http://xbrl.sec.gov/country/2024", "localname": "CA", "presentation": ["http://www.luxfer.com/role/SegmentalInformationGeographicInformationbyRegionDetails", "http://www.luxfer.com/role/SegmentalInformationGeographicInformationbyRegionDetails_1"], "lang": { "en-us": { "role": { "terseLabel": "Canada", "label": "CANADA" } } }, "auth_ref": [] }, "lxfr_CapitalExpenditureCashAndNoncash": { "xbrltype": "monetaryItemType", "nsuri": "http://www.luxfer.com/20240630", "localname": "CapitalExpenditureCashAndNoncash", "crdr": "credit", "presentation": ["http://www.luxfer.com/role/SegmentalInformationFinancialInformationbyReportableSegmentDetails"], "lang": { "en-us": { "role": { "terseLabel": "Capital expenditures", "label": "Capital Expenditure, Cash And Noncash", "documentation": "Capital Expenditure, Cash And Noncash" } } }, "auth_ref": [] }, "us-gaap_CapitalExpenditureDiscontinuedOperations": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CapitalExpenditureDiscontinuedOperations", "crdr": "debit", "presentation": ["http://www.luxfer.com/role/DiscontinuedOperationsAdditionalInformationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Capital expenditure, discontinued operations", "label": "Capital Expenditure, Discontinued Operations", "documentation": "Amount of capital expenditure attributable to discontinued operations." } } }, "auth_ref": ["r88"] }, "us-gaap_CashAndCashEquivalentsAtCarryingValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashAndCashEquivalentsAtCarryingValue", "crdr": "debit", "calculation": { "http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETSUNAUDITED": { "parentTag": "us-gaap_AssetsCurrent", "weight": 1.0, "order": 4.0 } }, "presentation": ["http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETSUNAUDITED"], "lang": { "en-us": { "role": { "terseLabel": "Cash and cash equivalents", "label": "Cash and Cash Equivalents, at Carrying Value", "documentation": "Amount of currency on hand as well as demand deposits with banks or financial institutions. Includes other kinds of accounts that have the general characteristics of demand deposits. Also includes short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. Excludes cash and cash equivalents within disposal group and discontinued operation." } } }, "auth_ref": ["r28", "r225", "r841"] }, "us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents", "crdr": "debit", "presentation": ["http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWSUNAUDITED"], "lang": { "en-us": { "role": { "periodStartLabel": "Cash, cash equivalents and restricted cash; beginning of year", "periodEndLabel": "Cash, cash equivalents and restricted cash; end of the second quarter", "label": "Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents", "documentation": "Amount of cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage. Excludes amount for disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates." } } }, "auth_ref": ["r28", "r129", "r259"] }, "us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect", "crdr": "debit", "calculation": { "http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWSUNAUDITED": { "parentTag": null, "weight": null, "order": null, "root": true } }, "presentation": ["http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWSUNAUDITED"], "lang": { "en-us": { "role": { "totalLabel": "Net increase / (decrease)", "label": "Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents, Period Increase (Decrease), Including Exchange Rate Effect", "documentation": "Amount of increase (decrease) in cash, cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; including effect from exchange rate change. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates." } } }, "auth_ref": ["r0", "r129"] }, "us-gaap_CashProvidedByUsedInInvestingActivitiesDiscontinuedOperations": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashProvidedByUsedInInvestingActivitiesDiscontinuedOperations", "crdr": "debit", "calculation": { "http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWSUNAUDITED": { "parentTag": "us-gaap_NetCashProvidedByUsedInInvestingActivities", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWSUNAUDITED"], "lang": { "en-us": { "role": { "terseLabel": "Net cash used by investing activities - discontinued", "label": "Cash Provided by (Used in) Investing Activities, Discontinued Operations", "documentation": "Amount of cash inflow (outflow) of investing activities of discontinued operations. Investing activity cash flows include making and collecting loans and acquiring and disposing of debt or equity instruments and property, plant, and equipment and other productive assets." } } }, "auth_ref": ["r87", "r129"] }, "us-gaap_CashProvidedByUsedInOperatingActivitiesDiscontinuedOperations": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashProvidedByUsedInOperatingActivitiesDiscontinuedOperations", "crdr": "debit", "calculation": { "http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWSUNAUDITED": { "parentTag": "us-gaap_NetCashProvidedByUsedInOperatingActivities", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWSUNAUDITED"], "lang": { "en-us": { "role": { "terseLabel": "Net cash provided by operating activities - discontinued", "label": "Cash Provided by (Used in) Operating Activities, Discontinued Operations", "documentation": "Amount of cash inflow (outflow) of operating activities of discontinued operations. Operating activity cash flows include transactions, adjustments, and changes in value not defined as investing or financing activities." } } }, "auth_ref": ["r87", "r129"] }, "ecd_ChangedPeerGroupFnTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "ChangedPeerGroupFnTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Changed Peer Group, Footnote", "label": "Changed Peer Group, Footnote [Text Block]" } } }, "auth_ref": ["r964"] }, "ecd_ChngInFrValAsOfVstngDtOfPrrYrEqtyAwrdsVstdInCvrdYrMember": { "xbrltype": "domainItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "ChngInFrValAsOfVstngDtOfPrrYrEqtyAwrdsVstdInCvrdYrMember", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Change in Fair Value as of Vesting Date of Prior Year Equity Awards Vested in Covered Year", "label": "Change in Fair Value as of Vesting Date of Prior Year Equity Awards Vested in Covered Year [Member]" } } }, "auth_ref": ["r961"] }, "ecd_ChngInFrValOfOutsdngAndUnvstdEqtyAwrdsGrntdInPrrYrsMember": { "xbrltype": "domainItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "ChngInFrValOfOutsdngAndUnvstdEqtyAwrdsGrntdInPrrYrsMember", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel":

"Year-over-Year Change in Fair Value of Equity Awards Granted in Prior Years That are Outstanding and Unvested", "label": "Year-over-Year Change in Fair Value of Equity Awards Granted in Prior Years That are Outstanding and Unvested [Member]" } } }, "auth_ref": ["r959"] }, "dei_CityAreaCode": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "CityAreaCode", "presentation": ["http://www.luxfer.com/role/Cover"], "lang": { "en-us": { "role": { "terseLabel": "City Area Code", "label": "City Area Code", "documentation": "Area code of city" } } }, "auth_ref": [] }, "us-gaap_ClassOfStockDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ClassOfStockDomain", "presentation": ["http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCHANGESINEQUITYUNAUDITED", "http://www.luxfer.com/role/EarningspershareDetails"], "lang": { "en-us": { "role": { "terseLabel": "Class of Stock [Domain]", "label": "Class of Stock [Domain]", "documentation": "Share of stock differentiated by the voting rights the holder receives. Examples include, but are not limited to, common stock, redeemable preferred stock, nonredeemable preferred stock, and convertible stock." } } }, "auth_ref": ["r177", "r234", "r235", "r236", "r262", "r286", "r287", "r289", "r291", "r298", "r299", "r336", "r396", "r399", "r400", "r401", "r405", "r406", "r437", "r438", "r441", "r444", "r451", "r617", "r732", "r733", "r734", "r735", "r738", "r739", "r740", "r741", "r742", "r743", "r744", "r745", "r746", "r747", "r748", "r749", "r763", "r785", "r803", "r818", "r819", "r820", "r821", "r822", "r1003", "r1032", "r1042"] }, "us-gaap_ClassOfStockLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ClassOfStockLineItems", "presentation": ["http://www.luxfer.com/role/EarningspershareDetails", "http://www.luxfer.com/role/ShareholdersEquityScheduleofDividendPaidandProposedDetails"], "lang": { "en-us": { "role": { "terseLabel": "Class of Stock [Line Items]", "label": "Class of Stock [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": ["r234", "r235", "r236", "r298", "r437", "r438", "r439", "r441", "r444", "r449", "r451", "r732", "r733", "r734", "r735", "r870", "r1003", "r1032"] }, "ecd_CoSelectedMeasureAmt": { "xbrltype": "decimalItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "CoSelectedMeasureAmt", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Company Selected Measure Amount", "label": "Company Selected Measure Amount" } } }, "auth_ref": ["r965"] }, "ecd_CoSelectedMeasureName": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "CoSelectedMeasureName", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Company Selected Measure Name", "label": "Company Selected Measure Name" } } }, "auth_ref": ["r965"] }, "us-gaap_CommitmentsAndContingencies": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommitmentsAndContingencies", "crdr": "credit", "presentation": ["http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETSUNAUDITED"], "lang": { "en-us": { "role": { "terseLabel": "Commitments and contingencies (Note 16)", "label": "Commitments and Contingencies", "documentation": "Represents the caption on the face of the balance sheet to indicate that the entity has entered into (1) purchase or supply arrangements that will require expending a portion of its resources to meet the terms thereof, and (2) is exposed to potential losses or, less frequently, gains, arising from (a) possible claims against a company's resources due to future performance under contract terms, and (b) possible losses or likely gains from uncertainties that will ultimately be resolved when one or more future events that are deemed likely to occur do occur or fail to occur." } } }, "auth_ref": ["r103", "r164", "r688", "r762"] }, "us-gaap_CommitmentsAndContingenciesDisclosureAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommitmentsAndContingenciesDisclosureAbstract", "lang": { "en-us": { "role": { "terseLabel": "Commitments and Contingencies Disclosure [Abstract]", "label": "Commitments and Contingencies Disclosure [Abstract]" } } }, "auth_ref": [] }, "us-gaap_CommitmentsAndContingenciesDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommitmentsAndContingenciesDisclosureTextBlock", "presentation": ["http://www.luxfer.com/role/CommitmentsandContingencies"], "lang": { "en-us": { "role": { "terseLabel": "Commitments and Contingencies", "label": "Commitments and Contingencies Disclosure [Text Block]", "documentation": "The entire disclosure for commitments and contingencies." } } }, "auth_ref": ["r147", "r386", "r387", "r826", "r1076", "r1084"] }, "us-gaap_CommitmentsDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommitmentsDisclosureTextBlock", "presentation": ["http://www.luxfer.com/role/CommitmentsandContingenciesTables"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Uncommitted Facilities", "label": "Commitments Disclosure [Text Block]", "documentation": "The entire disclosure for significant arrangements with third parties, which includes operating lease arrangements and arrangements in which the entity has agreed to expend funds to procure goods or services, or has agreed to commit resources to supply goods or services, and operating lease arrangements. Descriptions may include identification of the specific goods and services, period of time covered, minimum quantities and amounts, and cancellation rights." } } }, "auth_ref": ["r147"] }, "lxfr_CommittedBankingFacilitiesMember": { "xbrltype": "domainItemType", "nsuri": "http://www.luxfer.com/20240630", "localname": "CommittedBankingFacilitiesMember", "presentation": ["http://www.luxfer.com/role/CommitmentsandContingenciesAdditionalInformationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Committed Banking Facilities", "label": "Committed Banking Facilities [Member]", "documentation": "Committed Banking Facilities [Member]" } } }, "auth_ref": [] }, "us-gaap_CommonStockDividendsPerShareCashPaid": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockDividendsPerShareCashPaid", "presentation": ["http://www.luxfer.com/role/ShareholdersEquityScheduleofDividendPaidandProposedDetails"], "lang": { "en-us": { "role": { "terseLabel": "Dividends paid (in USD per share)", "label": "Common Stock, Dividends, Per Share, Cash Paid", "documentation": "Aggregate dividends paid during the period for each share of common stock outstanding." } } }, "auth_ref": ["r153"] }, "us-gaap_CommonStockMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockMember", "presentation": ["http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCHANGESINEQUITYUNAUDITED"], "lang": { "en-us": { "role": { "terseLabel": "Common stock", "label": "Common Stock [Member]", "documentation": "Stock that is subordinate to all other stock of the issuer." } } }, "auth_ref": ["r907", "r908", "r909", "r911", "r912", "r913", "r914", "r1038", "r1039", "r1041", "r1129", "r1179", "r1181"] }, "us-gaap_CommonStockParOrStatedValuePerShare": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockParOrStatedValuePerShare", "presentation": ["http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETSUNAUDITEDParenthetical", "http://www.luxfer.com/role/EarningspershareDetails"], "lang": { "en-us": { "role": { "verboseLabel": "Common stock, par value (in GBP per share)", "label": "Common Stock, Par or Stated Value Per Share", "documentation": "Face amount or stated value per share of common stock." } } }, "auth_ref": ["r106"] }, "us-gaap_CommonStockSharesAuthorized": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockSharesAuthorized", "presentation": ["http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETSUNAUDITEDParenthetical"], "lang": { "en-us": { "role": { "terseLabel": "Common stock, shares authorized (in shares)", "label": "Common Stock, Shares Authorized", "documentation": "The maximum number of common shares permitted to be issued by an entity's charter and bylaws." } } }, "auth_ref": ["r106", "r763"] }, "us-gaap_CommonStockSharesIssued": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockSharesIssued", "presentation": ["http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETSUNAUDITEDParenthetical"], "lang": { "en-us": { "role": { "terseLabel": "Common stock, shares issued (in shares)", "label": "Common Stock, Shares, Issued", "documentation": "Total number of common shares of an entity that have been sold or granted to shareholders (includes common shares that were issued, repurchased and remain in the treasury). These shares represent capital invested by the firm's shareholders and owners, and may be all or only a portion of the number of shares authorized. Shares issued include shares outstanding and shares held in the treasury." } } }, "auth_ref": ["r106"] }, "us-gaap_CommonStockSharesOutstanding": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockSharesOutstanding", "presentation": ["http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETSUNAUDITEDParenthetical"], "lang": { "en-us": { "role": { "terseLabel": "Common stock, shares outstanding (in shares)", "label": "Common Stock, Shares, Outstanding", "documentation": "Number of shares of common stock outstanding. Common stock represent the ownership interest in a corporation." } } }, "auth_ref": ["r19", "r106", "r763", "r782", "r1181", "r1182"] }, "us-gaap_CommonStockValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockValue", "crdr": "credit", "calculation": { "http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETSUNAUDITED": { "parentTag": "us-gaap_StockholdersEquity", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETSUNAUDITED"], "lang": { "en-us": { "role": { "terseLabel": "Ordinary shares of \u00a30.50 par value; authorized 40,000,000 shares for 2024 and 2023; issued and outstanding 28,944,000 for 2024 and 2023", "label": "Common Stock, Value, Issued", "documentation": "Aggregate par or stated value of issued nonredeemable common stock (or common stock redeemable solely at the option of the issuer). This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable common shares, par value and other disclosure concepts are in another section within stockholders' equity." } } }, "auth_ref": ["r106", "r689", "r891"] }, "ecd_CompActuallyPaidVsCoSelectedMeasureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "CompActuallyPaidVsCoSelectedMeasureTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Compensation Actually Paid vs. Company Selected Measure", "label": "Compensation Actually Paid vs. Company Selected Measure [Text Block]" } } }, "auth_ref": ["r970"] }, "ecd_CompActuallyPaidVsNetIncomeTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "CompActuallyPaidVsNetIncomeTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Compensation Actually Paid vs. Net Income", "label": "Compensation Actually Paid vs. Net Income [Text Block]" } } }, "auth_ref": ["r969"] }, "ecd_CompActuallyPaidVsOtherMeasureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "CompActuallyPaidVsOtherMeasureTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Compensation Actually Paid vs. Other Measure", "label": "Compensation Actually Paid vs. Other Measure [Text Block]" } } }, "auth_ref": ["r971"] }, "ecd_CompActuallyPaidVsTotalShareholderRtnTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "CompActuallyPaidVsTotalShareholderRtnTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Compensation Actually Paid vs. Total Shareholder Return", "label": "Compensation Actually Paid vs. Total Shareholder Return [Text Block]" } } }, "auth_ref": ["r968"] }, "us-gaap_CompensationAndRetirementDisclosureAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CompensationAndRetirementDisclosureAbstract", "lang": { "en-us": { "role": { "terseLabel": "Retirement Benefits [Abstract]", "label": "Retirement Benefits [Abstract]" } } }, "auth_ref": [] }, "us-gaap_ComprehensiveIncomeNetOfTax": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ComprehensiveIncomeNetOfTax", "crdr": "credit", "calculation": { "http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCOMPREHENSIVELOSSINCOMEUNAUDITED": { "parentTag": null, "weight": null, "order": null, "root": true } }, "presentation": ["http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCOMPREHENSIVELOSSINCOMEUNAUDITED"], "lang": { "en-us": { "role": { "totalLabel": "Total comprehensive (loss) / income", "label": "Comprehensive Income (Loss), Net of Tax, Attributable to Parent", "documentation": "Amount after tax of increase (decrease) in equity from transactions and other events and circumstances from net income and other comprehensive income, attributable to parent entity. Excludes changes in equity resulting from investments by owners and distributions to owners." } } }, "auth_ref": ["r27", "r246", "r248", "r252", "r680", "r699", "r700"] }, "us-gaap_ConcentrationRiskBenchmarkDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConcentrationRiskBenchmarkDomain", "presentation": ["http://www.luxfer.com/role/SegmentalInformationGeographicInformationbyRegionDetails_1"], "lang": { "en-us": { "role": { "terseLabel": "Concentration Risk Benchmark [Domain]", "label": "Concentration Risk Benchmark [Domain]", "documentation": "The denominator in a calculation of a disclosed concentration risk percentage." } } }, "auth_ref": ["r30", "r32", "r66", "r67", "r333", "r825"] }, "us-gaap_ConcentrationRiskByBenchmarkAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConcentrationRiskByBenchmarkAxis", "presentation": ["http://www.luxfer.com/role/SegmentalInformationGeographicInformationbyRegionDetails_1"], "lang": { "en-us": { "role": { "terseLabel": "Concentration Risk Benchmark [Axis]", "label": "Concentration Risk Benchmark [Axis]", "documentation": "Information by benchmark of concentration risk." } } }, "auth_ref": ["r30", "r32", "r66", "r67", "r333", "r730", "r825"] }, "us-gaap_ConcentrationRiskByTypeAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConcentrationRiskByTypeAxis", "presentation": ["http://www.luxfer.com/role/SegmentalInformationGeographicInformationbyRegionDetails_1"], "lang": { "en-us": { "role": { "terseLabel": "Concentration Risk Type [Axis]", "label": "Concentration Risk Type [Axis]", "documentation": "Information by type of concentration risk, for example, but not limited to, asset, liability, net assets, geographic, customer, employees, supplier, lender." } } }, "auth_ref": ["r30", "r32", "r66", "r67", "r333", "r825", "r1005"] }, "us-gaap_ConcentrationRiskPercentage1": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConcentrationRiskPercentage1", "presentation": ["http://www.luxfer.com/role/SegmentalInformationGeographicInformationbyRegionDetails_1"], "lang": { "en-us": { "role": { "terseLabel": "Concentration risk, percentage", "label": "Concentration Risk, Percentage", "documentation": "For an entity that discloses a concentration risk in relation to quantitative amount, which serves as the \"benchmark\" (or denominator) in the equation, this concept represents the concentration percentage derived from the division." } } }, "auth_ref": ["r30", "r32", "r66", "r67", "r333"] }, "us-gaap_ConcentrationRiskTypeDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConcentrationRiskTypeDomain", "presentation": ["http://www.luxfer.com/role/SegmentalInformationGeographicInformationbyRegionDetails_1"], "lang": { "en-us": { "role": { "terseLabel": "Concentration Risk Type [Domain]", "label": "Concentration Risk Type [Domain]", "documentation": "For an entity that discloses a concentration risk as a percentage of some financial balance or benchmark, identifies the type (for example, asset, liability, net assets, geographic, customer, employees, supplier, lender) of the concentration." } } }, "auth_ref": ["r30", "r32", "r66", "r67", "r333", "r825"] }, "srt_ConsolidationItemsAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "ConsolidationItemsAxis", "presentation": ["http://www.luxfer.com/role/SegmentalInformationFinancialInformationbyReportableSegmentDetails"], "lang": { "en-us": { "role": { "terseLabel": "Consolidation Items [Axis]", "label": "Consolidation Items [Axis]", "documentation": "Information by components, eliminations, non-segment corporate-level activity and reconciling items used in consolidating a parent entity and its subsidiaries or its operating segments." } } }, "auth_ref": ["r171", "r178", "r204", "r205", "r206", "r207", "r208", "r209", "r210", "r211", "r212", "r268", "r296", "r306", "r320", "r321", "r322", "r323", "r324", "r326", "r327", "r328", "r396", "r397", "r398", "r399", "r401", "r402", "r403", "r404", "r405", "r856", "r857", "r1011", "r1012", "r1091", "r1092"] }, "srt_ConsolidationItemsDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "ConsolidationItemsDomain", "presentation": ["http://www.luxfer.com/role/SegmentalInformationFinancialInformationbyReportableSegmentDetails"], "lang": { "en-us": { "role": { "terseLabel": "Consolidation Items [Domain]", "label": "Consolidation Items [Domain]", "documentation": "Components, elimination, non-segment corporate-level activity and reconciling items used in consolidating a parent entity and its subsidiaries or its operating segments." } } }, "auth_ref": ["r171", "r178", "r204", "r205", "r206", "r207", "r208", "r209", "r210", "r211", "r212", "r268", 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Includes recently completed structures or modifications to structures that have not been placed into service." } } }, "auth_ref": [] }, "lxfr_ContingentLiabilitiesNoncurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://www.luxfer.com/20240630", "localname": "ContingentLiabilitiesNoncurrent", "crdr": "credit", "calculation": { "http://www.luxfer.com/role/SupplementarybalancesheetinformationDetails": { "parentTag": "us-gaap_OtherLiabilitiesNoncurrent", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://www.luxfer.com/role/SupplementarybalancesheetinformationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Contingent liabilities", "label": "Contingent Liabilities, Noncurrent", "documentation": "Contingent Liabilities, Noncurrent" } } }, "auth_ref": [] }, "us-gaap_CorporateNonSegmentMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CorporateNonSegmentMember", "presentation": ["http://www.luxfer.com/role/SegmentalInformationFinancialInformationbyReportableSegmentDetails"], "lang": { "en-us": { "role": { "terseLabel": "Other", "label": "Segment Reporting, Reconciling Item, Corporate Nonsegment [Member]", "documentation": "Corporate headquarters or functional department that may not earn revenues or may earn revenues that are only incidental to the activities of the entity and is not considered an operating segment." } } }, "auth_ref": ["r21", "r321", "r322", "r323", "r324", "r327", "r1047"] }, "us-gaap_CostOfGoodsAndServicesSold": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CostOfGoodsAndServicesSold", "crdr": "debit", "calculation": { "http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFLOSSINCOMEUNAUDITED": { "parentTag": "us-gaap_GrossProfit", "weight": -1.0, "order": 2.0 } }, "presentation": ["http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFLOSSINCOMEUNAUDITED"], "lang": { "en-us": { "role": { "negatedTerseLabel": "Cost of goods sold", "label": "Cost of Goods and Services Sold", "documentation": "The aggregate costs related to goods produced and sold and services rendered by an entity during the reporting period. This excludes costs incurred during the reporting period related to financial services rendered and other revenue generating activities." } } }, "auth_ref": ["r120", "r121", "r645"] }, "srt_CounterpartyNameAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "CounterpartyNameAxis", "presentation": ["http://www.luxfer.com/role/CommitmentsandContingenciesAdditionalInformationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Counterparty Name [Axis]", "label": "Counterparty Name [Axis]", "documentation": "Information by name of counterparty. A counterparty is the other party that participates in a financial transaction. Examples include, but not limited to, the name of the financial institution." } } }, "auth_ref": ["r213", "r214", "r266", "r267", "r411", "r439", "r637", "r643", "r684", "r846", "r848"] }, "dei_CountryRegion": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "CountryRegion", "presentation": ["http://www.luxfer.com/role/Cover"], "lang": { "en-us": { "role": { "terseLabel": "Country Region", "label": "Country Region", "documentation": "Region code of country" } } }, "auth_ref": [] }, "dei_CoverAbstract": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "CoverAbstract", "lang": { "en-us": { "role": { "terseLabel": "Cover [Abstract]", "label": "Cover [Abstract]", "documentation": "Cover page." } } }, "auth_ref": [] }, "us-gaap_CreditFacilityAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CreditFacilityAxis", "presentation": ["http://www.luxfer.com/role/CommitmentsandContingenciesAdditionalInformationDetails", "http://www.luxfer.com/role/CommitmentsandContingenciesScheduleofUncommittedFacilitiesDetails", "http://www.luxfer.com/role/DebtAdditionalInformationDetails", "http://www.luxfer.com/role/DebtScheduleofDebtOutstandingDetails"], "lang": { "en-us": { "role": { "terseLabel": "Credit Facility [Axis]", "label": "Credit Facility [Axis]", "documentation": "Information by type of credit facility. Credit facilities provide capital to borrowers without the need to structure a loan for each borrowing." } } }, "auth_ref": ["r395", "r1089"] }, "us-gaap_CreditFacilityDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CreditFacilityDomain", "presentation": ["http://www.luxfer.com/role/CommitmentsandContingenciesAdditionalInformationDetails", "http://www.luxfer.com/role/CommitmentsandContingenciesScheduleofUncommittedFacilitiesDetails", "http://www.luxfer.com/role/DebtAdditionalInformationDetails", "http://www.luxfer.com/role/DebtScheduleofDebtOutstandingDetails"], "lang": { "en-us": { "role": { "terseLabel": "Credit Facility [Domain]", "label": "Credit Facility [Domain]", "documentation": "Type of credit facility. 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other matters important to users of the financial statements, such as the effects of refinancing and noncompliance with debt covenants." } } }, "auth_ref": ["r148", "r260", "r369", "r370", "r371", "r372", "r373", "r394", "r395", "r407", "r413", "r414", "r415", "r416", "r417", "r418", "r423", "r430", "r431", "r433", "r626"] }, "us-gaap_DebtInstrumentAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtInstrumentAxis", "presentation": ["http://www.luxfer.com/role/CommitmentsandContingenciesAdditionalInformationDetails", "http://www.luxfer.com/role/CommitmentsandContingenciesScheduleofUncommittedFacilitiesDetails", "http://www.luxfer.com/role/DebtScheduleofDebtOutstandingDetails"], "lang": { "en-us": { "role": { "terseLabel": "Debt Instrument [Axis]", "label": "Debt Instrument [Axis]", "documentation": "Information by type of debt instrument, including, but not limited to, draws against credit facilities." } } }, "auth_ref": ["r23", "r96", 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"Long-Term Debt, Gross", "documentation": "Amount, before unamortized (discount) premium and debt issuance costs, of long-term debt. Includes, but is not limited to, notes payable, bonds payable, commercial loans, mortgage loans, convertible debt, subordinated debt and other types of debt." } } }, "auth_ref": ["r23", "r163", "r434"] }, "us-gaap_DebtInstrumentInterestRateStatedPercentage": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtInstrumentInterestRateStatedPercentage", "presentation": ["http://www.luxfer.com/role/DebtScheduleofDebtOutstandingDetails"], "lang": { "en-us": { "role": { "terseLabel": "Debt stated interest rate", "label": "Debt Instrument, Interest Rate, Stated Percentage", "documentation": "Contractual interest rate for funds borrowed, under the debt agreement." } } }, "auth_ref": ["r99", "r409"] }, "us-gaap_DebtInstrumentLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtInstrumentLineItems", "presentation": ["http://www.luxfer.com/role/DebtAdditionalInformationDetails", "http://www.luxfer.com/role/DebtScheduleofDebtOutstandingDetails"], "lang": { "en-us": { "role": { "terseLabel": "Debt Instrument [Line Items]", "label": "Debt Instrument [Line Items]", "documentation": "Line items represent financial concepts included in a table. 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Includes, but is not limited to, legal, accounting, underwriting, printing, and registration costs." } } }, "auth_ref": ["r1094", "r1132", "r1133", "r1135"] }, "us-gaap_DeferredIncomeTaxAssetsNet": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DeferredIncomeTaxAssetsNet", "crdr": "debit", "calculation": { "http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETSUNAUDITED": { "parentTag": "us-gaap_Assets", "weight": 1.0, "order": 6.0 } }, "presentation": ["http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETSUNAUDITED"], "lang": { "en-us": { "role": { "terseLabel": "Deferred tax assets", "label": "Deferred Income Tax Assets, Net", "documentation": "Amount, after allocation of valuation allowances and deferred tax liability, of deferred tax asset attributable to deductible differences and carryforwards, with jurisdictional netting." } } }, "auth_ref": ["r578", "r579"] }, "us-gaap_DeferredIncomeTaxLiabilitiesNet": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DeferredIncomeTaxLiabilitiesNet", "crdr": "credit", "calculation": { "http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETSUNAUDITED": { "parentTag": "us-gaap_Liabilities", "weight": 1.0, "order": 4.0 } }, "presentation": ["http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETSUNAUDITED"], "lang": { "en-us": { "role": { "terseLabel": "Deferred tax liabilities", "label": "Deferred Income Tax Liabilities, Net", "documentation": "Amount, after deferred tax asset, of deferred tax liability attributable to taxable differences with jurisdictional netting." } } }, "auth_ref": ["r578", "r579", "r686"] }, "us-gaap_DeferredIncomeTaxesAndTaxCredits": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DeferredIncomeTaxesAndTaxCredits", "crdr": "debit", "calculation": { "http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWSUNAUDITED": { "parentTag": "us-gaap_NetCashProvidedByUsedInOperatingActivitiesContinuingOperations", "weight": 1.0, "order": 8.0 } }, "presentation": ["http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWSUNAUDITED"], "lang": { "en-us": { "role": { "terseLabel": "Deferred income taxes", "label": "Deferred Income Taxes and Tax Credits", "documentation": "Amount of deferred income tax expense (benefit) and income tax credits." } } }, "auth_ref": ["r132"] }, "us-gaap_DefinedBenefitPlanAssetsForPlanBenefitsNoncurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DefinedBenefitPlanAssetsForPlanBenefitsNoncurrent", "crdr": "debit", "calculation": { "http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETSUNAUDITED": { "parentTag": "us-gaap_Assets", "weight": 1.0, "order": 5.0 } }, "presentation": ["http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETSUNAUDITED"], "lang": { "en-us": { "role": { "terseLabel": "Pensions and other retirement benefits", "label": "Assets for Plan Benefits, Defined Benefit Plan", "documentation": "Amount of asset, recognized in statement of financial position, for overfunded defined benefit pension and other postretirement plans." } } }, "auth_ref": ["r159", "r465", "r466", "r488", "r775", "r878", "r1147"] }, "us-gaap_DefinedBenefitPlanDisclosureLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DefinedBenefitPlanDisclosureLineItems", "presentation": ["http://www.luxfer.com/role/PensionSettlementDetails"], "lang": { "en-us": { "role": { "terseLabel": "Defined Benefit Plan Disclosure [Line Items]", "label": "Defined Benefit Plan Disclosure [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": [] }, "us-gaap_DefinedBenefitPlanDivestituresBenefitObligation": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DefinedBenefitPlanDivestituresBenefitObligation", "crdr": "debit", "presentation": ["http://www.luxfer.com/role/PensionSettlementDetails"], "lang": { "en-us": { "role": { "terseLabel": "Derecognition of pension liability", "label": "Defined Benefit Plan, Benefit Obligation, Divestiture", "documentation": "Amount of decrease in benefit obligation of defined benefit plan from disposal or classification as held-for-sale." } } }, "auth_ref": ["r478"] }, "us-gaap_DefinedBenefitPlanNetPeriodicBenefitCost": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DefinedBenefitPlanNetPeriodicBenefitCost", "crdr": "debit", "presentation": ["http://www.luxfer.com/role/PensionSettlementDetails"], "lang": { "en-us": { "role": { "negatedLabel": "Defined benefit pension credit", "label": "Defined Benefit Plan, Net Periodic Benefit Cost (Credit)", "documentation": "Amount of net periodic benefit cost (credit) for defined benefit plan." } } }, "auth_ref": ["r501", "r525", "r878", "r879"] }, "us-gaap_Depreciation": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "Depreciation", "crdr": "debit", "calculation": { "http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWSUNAUDITED": { "parentTag": "us-gaap_NetCashProvidedByUsedInOperatingActivitiesContinuingOperations", "weight": 1.0, "order": 6.0 } }, "presentation": ["http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWSUNAUDITED"], "lang": { "en-us": { "role": { "terseLabel": "Depreciation", "label": "Depreciation", "documentation": "The amount of expense recognized in the current period that reflects the allocation of the cost of tangible assets over the assets' useful lives. Includes production and non-production related depreciation." } } }, "auth_ref": ["r13", "r40"] }, "us-gaap_DepreciationAndAmortizationDiscontinuedOperations": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DepreciationAndAmortizationDiscontinuedOperations", "crdr": "debit", "presentation": ["http://www.luxfer.com/role/DiscontinuedOperationsAdditionalInformationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Depreciation and amortization, discontinued operations", "label": "Depreciation and Amortization, Discontinued Operations", "documentation": "Amount of deprecation and amortization expense attributable to property, plant and equipment and intangible assets of discontinued operations." } } }, "auth_ref": ["r220", "r1029"] }, "us-gaap_DepreciationDepletionAndAmortization": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DepreciationDepletionAndAmortization", "crdr": "debit", "presentation": ["http://www.luxfer.com/role/SegmentalInformationFinancialInformationbyReportableSegmentDetails", "http://www.luxfer.com/role/SegmentalInformationReconciliationofConsolidatedSegmentIncomeDetails"], "lang": { "en-us": { "role": { "terseLabel": "Depreciation and amortization", "negatedTerseLabel": "Depreciation and amortization", "label": "Depreciation, Depletion and Amortization", "documentation": "The aggregate expense recognized in the current period that allocates the cost of tangible assets, intangible assets, or depleting assets to periods that benefit from use of the assets." } } }, "auth_ref": ["r13", "r296", "r309", "r326", "r856", "r857"] }, "us-gaap_DerivativeAssetsCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DerivativeAssetsCurrent", "crdr": "debit", "calculation": { "http://www.luxfer.com/role/SupplementarybalancesheetinformationDetails": { "parentTag": "us-gaap_ReceivablesNetCurrent", "weight": 1.0, "order": 4.0 } }, "presentation": ["http://www.luxfer.com/role/SupplementarybalancesheetinformationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Derivative financial instruments", "label": "Derivative Asset, Current", "documentation": "Fair value, after the effects of master netting arrangements, of a financial asset or other contract with one or more underlyings, notional amount or payment provision or both, and the contract can be net settled by means outside the contract or delivery of an asset, expected to be settled within one year or normal operating cycle, if longer. 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withdrawal or usage; held in foreign currencies. Excludes amounts for disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand,
demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to,
short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in
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Where multiple classes or units exist define each class/interest by adding class of stock items such as Common Class A [Member], Common Class B [Member] or Partnership Interest [Member] onto the Instrument [Domain] of the Entity Listings, Instrument." } } }, "auth_ref": [] }, "dei_EntityCurrentReportingStatus": { "xbrltype": "yesNoItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityCurrentReportingStatus", "presentation": ["http://www.luxfer.com/role/Cover"], "lang": { "en-us": { "role": { "terseLabel": "Entity Current Reporting Status", "label": "Entity Current Reporting Status", "documentation": "Indicate 'Yes' or 'No' whether registrants (1) have filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that registrants were required to file such reports), and (2) have been subject to such filing requirements for the past 90 days. 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This information should be based on the registrant's current or most recent filing containing the related disclosure." } } }, "auth_ref": ["r918"] }, "dei_EntityIncorporationStateCountryCode": { "xbrltype": "edgarStateCountryItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityIncorporationStateCountryCode", "presentation": ["http://www.luxfer.com/role/Cover"], "lang": { "en-us": { "role": { "terseLabel": "Entity Incorporation, State or Country Code", "label": "Entity Incorporation, State or Country Code", "documentation": "Two-character EDGAR code representing the state or country of incorporation." } } }, "auth_ref": [] }, "dei_EntityInteractiveDataCurrent": { "xbrltype": "yesNoItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityInteractiveDataCurrent", "presentation": ["http://www.luxfer.com/role/Cover"], "lang": { "en-us": { "role": { "terseLabel": "Entity Interactive Data Current", "label": "Entity Interactive Data Current", "documentation": 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Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r363", "r838", "r863"] }, "us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseRemainderOfFiscalYear": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsAmortizationExpenseRemainderOfFiscalYear", "crdr": "debit", "presentation": ["http://www.luxfer.com/role/GoodwillandotheridentifiableintangibleassetsAdditionalInformationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Amortization, remainder of fiscal year", "label": "Finite-Lived Intangible Asset, Expected Amortization, Remainder of Fiscal Year", "documentation": "Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in remainder of current fiscal year." } } }, "auth_ref": ["r1187"] }, "us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearFour": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsAmortizationExpenseYearFour", "crdr": "debit", "presentation": ["http://www.luxfer.com/role/GoodwillandotheridentifiableintangibleassetsAdditionalInformationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Amortization, year four", "label": "Finite-Lived Intangible Asset, Expected Amortization, Year Four", "documentation": "Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in fourth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r363", "r838", "r863"] }, "us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearThree": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsAmortizationExpenseYearThree", "crdr": "debit", "presentation": ["http://www.luxfer.com/role/GoodwillandotheridentifiableintangibleassetsAdditionalInformationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Amortization, year three", "label": "Finite-Lived Intangible Asset, Expected Amortization, Year Three", "documentation": "Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in third fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r363", "r838", "r863"] }, "us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearTwo": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsAmortizationExpenseYearTwo", "crdr": "debit", "presentation": ["http://www.luxfer.com/role/GoodwillandotheridentifiableintangibleassetsAdditionalInformationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Amortization, year two", "label": "Finite-Lived Intangible Asset, Expected Amortization, Year Two", "documentation": "Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in second fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r363", "r838", "r863"] }, "us-gaap_FiniteLivedIntangibleAssetsByMajorClassAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsByMajorClassAxis", "presentation": ["http://www.luxfer.com/role/GoodwillandotheridentifiableintangibleassetsScheduleofIntangibleAssetsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Finite-Lived Intangible Assets by Major Class [Axis]", "label": "Finite-Lived Intangible Assets by Major Class [Axis]", "documentation": "Information by major type or class of finite-lived intangible assets." } } }, "auth_ref": ["r355", "r357", "r358", "r359", "r360", "r361", "r364", "r365", "r646", "r647", "r838"] }, "us-gaap_FiniteLivedIntangibleAssetsFutureAmortizationExpenseAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsFutureAmortizationExpenseAbstract", "presentation": ["http://www.luxfer.com/role/GoodwillandotheridentifiableintangibleassetsAdditionalInformationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Finite-Lived Intangible Assets, Net, Amortization Expense, Fiscal Year Maturity", "label": "Finite-Lived Intangible Assets, Net, Amortization Expense, Fiscal Year Maturity [Abstract]" } } }, "auth_ref": [] }, "us-gaap_FiniteLivedIntangibleAssetsGross": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsGross", "crdr": "debit", "calculation": { "http://www.luxfer.com/role/GoodwillandotheridentifiableintangibleassetsScheduleofIntangibleAssetsDetails": { "parentTag": "us-gaap_FiniteLivedIntangibleAssetsNet", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://www.luxfer.com/role/GoodwillandotheridentifiableintangibleassetsScheduleofIntangibleAssetsDetails"], "lang": { "en-us": { "role": { "periodStartLabel": "Beginning balance", "periodEndLabel": "Ending balance", "label": "Finite-Lived Intangible Assets, Gross", "documentation": "Amount before amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life." } } }, "auth_ref": ["r342", "r361", "r647", "r863"] }, "us-gaap_FiniteLivedIntangibleAssetsLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsLineItems", "presentation": ["http://www.luxfer.com/role/GoodwillandotheridentifiableintangibleassetsScheduleofIntangibleAssetsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Finite-Lived Intangible Assets [Line Items]", "label": "Finite-Lived Intangible Assets [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": ["r355", "r361", "r364", "r365", "r366", "r646", "r838", "r863"] }, "us-gaap_FiniteLivedIntangibleAssetsMajorClassNameDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsMajorClassNameDomain", "presentation": ["http://www.luxfer.com/role/GoodwillandotheridentifiableintangibleassetsScheduleofIntangibleAssetsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Finite-Lived Intangible Assets, Major Class Name [Domain]", "label": "Finite-Lived Intangible Assets, Major Class Name [Domain]", "documentation": "The major class of finite-lived intangible asset (for example, patents, trademarks, copyrights, etc.) A major class is composed of intangible assets that can be grouped together because they are similar, either by their nature or by their use in the operations of a company." } } }, "auth_ref": ["r355", "r357", "r358", "r359", "r360", "r361", "r364", "r365", "r838"] }, "us-gaap_FiniteLivedIntangibleAssetsNet": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsNet", "crdr": "debit", "calculation": { "http://www.luxfer.com/role/GoodwillandotheridentifiableintangibleassetsScheduleofIntangibleAssetsDetails": { "parentTag": null, "weight": null, "order": null, "root": true } }, "presentation": ["http://www.luxfer.com/role/GoodwillandotheridentifiableintangibleassetsScheduleofIntangibleAssetsDetails"], "lang": { "en-us": { "role": { "totalLabel": "Net book values:", "label": "Finite-Lived Intangible Assets, Net", "documentation": "Amount after amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life." } } }, "auth_ref": ["r646", "r1072"] }, "us-gaap_FiniteLivedIntangibleAssetsRollForward": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsRollForward", "presentation": ["http://www.luxfer.com/role/GoodwillandotheridentifiableintangibleassetsScheduleofIntangibleAssetsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Cost:", "label": "Finite-Lived Intangible Assets [Roll Forward]", "documentation": "A roll forward is a reconciliation of a concept from the beginning of a period to the end of a period." } } }, "auth_ref": [] }, "us-gaap_FiscalPeriod": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiscalPeriod", "presentation": ["http://www.luxfer.com/role/BasisofPresentationandResponsibilityforinterimFinancialStatementsPolicies"], "lang": { "en-us": { "role": { "terseLabel": "Fiscal year", "label": "Fiscal Period, Policy [Policy Text Block]", "documentation": "Disclosure of accounting policy for determining an entity's fiscal year or other fiscal period. This disclosure may include identification of the fiscal period end-date, the length of the fiscal period, any reporting period lag between the entity and its subsidiaries, or equity investees. If a reporting lag exists, the closing date of the entity having a different period end is generally noted, along with an explanation of the necessity for using different closing dates. Any intervening events that materially affect the entity's financial position or results of operations are generally also disclosed." } } }, "auth_ref": ["r64"] }, "us-gaap_ForeignPlanMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ForeignPlanMember", "presentation": ["http://www.luxfer.com/role/PensionSettlementDetails"], "lang": { "en-us": { "role": { "terseLabel": "Foreign plan", "label": "Foreign Plan [Member]", "documentation": "Location of employer sponsoring plan, designed to provide retirement benefits, not determined as principal place of business. Includes, but is not limited to, defined benefit and defined contribution plans." } } }, "auth_ref": ["r1096", "r1097", "r1098"] }, "ecd_ForgoneRecoveryDueToDisqualificationOfTaxBenefitsAmt": { "xbrltype": "monetaryItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "ForgoneRecoveryDueToDisqualificationOfTaxBenefitsAmt", "presentation": ["http://xbrl.sec.gov/ecd/role/ErrCompDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Forgone Recovery due to Disqualification of Tax Benefits, Amount", "label": "Forgone Recovery due to Disqualification of Tax Benefits, Amount" } } }, "auth_ref": ["r929", "r939", "r949", "r981"] }, "ecd_ForgoneRecoveryDueToExpenseOfEnforcementAmt": { "xbrltype": "monetaryItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "ForgoneRecoveryDueToExpenseOfEnforcementAmt", "presentation": ["http://xbrl.sec.gov/ecd/role/ErrCompDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Forgone Recovery due to Expense of Enforcement, 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Risk is the materially adverse effects of economic decline or antagonistic political actions resulting in loss of assets, sales volume, labor supply, or source of materials and supplies in a US state or a specified country, continent, or region such as EMEA (Europe, Middle East, Africa)." } } }, "auth_ref": ["r31", "r825"] }, "us-gaap_Goodwill": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "Goodwill", "crdr": "debit", "calculation": { "http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETSUNAUDITED": { "parentTag": "us-gaap_Assets", "weight": 1.0, "order": 7.0 } }, "presentation": ["http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETSUNAUDITED", "http://www.luxfer.com/role/GoodwillandotheridentifiableintangibleassetsScheduleofGoodwillDetails"], "lang": { "en-us": { "role": { "terseLabel": "Goodwill", "periodStartLabel": "Beginning balance", "periodEndLabel": "Ending balance", "label": "Goodwill", "documentation": "Amount, after accumulated impairment loss, of asset representing future economic benefit arising from other asset acquired in business combination or from joint venture formation or both, that is not individually identified and separately recognized." } } }, "auth_ref": ["r228", "r343", "r678", "r857", "r862", "r885", "r891", "r1055", "r1062"] }, "us-gaap_GoodwillAndIntangibleAssetsDisclosureAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "GoodwillAndIntangibleAssetsDisclosureAbstract", "lang": { "en-us": { "role": { "terseLabel": "Goodwill and Intangible Assets Disclosure [Abstract]", "label": "Goodwill and Intangible Assets Disclosure [Abstract]" } } }, "auth_ref": [] }, "us-gaap_GoodwillAndIntangibleAssetsDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "GoodwillAndIntangibleAssetsDisclosureTextBlock", "presentation": ["http://www.luxfer.com/role/Goodwillandotheridentifiableintangibleassets"], "lang": { "en-us": { "role": { "terseLabel": "Goodwill and other identifiable intangible assets", "label": "Goodwill and Intangible Assets Disclosure [Text Block]", "documentation": "The entire disclosure for goodwill and intangible assets." } } }, "auth_ref": ["r1053", "r1065"] }, "us-gaap_GoodwillForeignCurrencyTranslationGainLoss": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "GoodwillForeignCurrencyTranslationGainLoss", "crdr": "credit", "presentation": ["http://www.luxfer.com/role/GoodwillandotheridentifiableintangibleassetsScheduleofGoodwillDetails"], "lang": { "en-us": { "role": { "terseLabel": "Exchange difference", "label": "Goodwill, Foreign Currency Translation Gain (Loss)", "documentation": "Amount of foreign currency translation gain (loss) which increases (decreases) asset representing future economic benefit from other asset acquired in business combination or from joint venture formation or both, that is not individually identified and separately recognized." } } }, "auth_ref": ["r350"] }, "us-gaap_GoodwillImpairedAccumulatedImpairmentLoss": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "GoodwillImpairedAccumulatedImpairmentLoss", "crdr": "credit", "presentation": ["http://www.luxfer.com/role/GoodwillandotheridentifiableintangibleassetsAdditionalInformationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Accumulated goodwill impairment losses", "label": "Goodwill, Impaired, Accumulated Impairment Loss", "documentation": "Amount of accumulated impairment loss for asset representing future economic benefit arising from other asset acquired in business combination or from joint venture formation or both, that is not individually identified and separately recognized." } } }, "auth_ref": ["r345", "r352", "r862"] }, "us-gaap_GoodwillLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "GoodwillLineItems", "presentation": ["http://www.luxfer.com/role/GoodwillandotheridentifiableintangibleassetsScheduleofGoodwillDetails"], "lang": { "en-us": { "role": { "terseLabel": "Goodwill [Line Items]", "label": "Goodwill [Line Items]", "documentation": "Line items represent financial concepts included in a table. 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discontinued operation attributable to the parent. Includes, but is not limited to, the income (loss) from operations during the phase-out period, gain (loss) on disposal, gain
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Operations, Net of Tax, Per Basic Share", "documentation": "Per basic share amount, after tax, of income (loss) from the day-to-day business activities of the discontinued
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Operations, Net of Tax, Per Diluted Share", "documentation": "Per diluted share amount, after tax, of income (loss) from the day-to-day business activities of the discontinued
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insignificant coupon interest rate in relation to effective interest rate of borrowing attributable to accreted interest of debt discount." } } }, "auth_ref": ["r255", "r257",
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payment to a beneficiary, or as the source of payment for a specific transaction (for example, wiring funds to a foreign exporter if and when specified merchandise is accepted
pursuant to the terms of the letter of credit)." } } }, "auth_ref": [] }, "us-gaap_Liabilities": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024",
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Investing activity cash flows include making and collecting loans and acquiring and disposing of debt or equity instruments and property, plant, and equipment and other productive assets." } } }, "auth_ref": ["r1027"] }, "us-gaap_NetCashProvidedByUsedInOperatingActivities": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NetCashProvidedByUsedInOperatingActivities", "calculation": { "http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWSUNAUDITED": { "parentTag": "us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCASHFLOWSUNAUDITED"], "lang": { "en-us": { "role": { "totalLabel": "Net cash provided / (used) by operating activities", "label": "Net Cash Provided by (Used in) Operating Activities", "documentation": "Amount of cash inflow (outflow) from operating activities, including discontinued operations. 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Amount includes, but is not limited to, interest cost, expected (return) loss on plan asset, amortization of prior service cost (credit), amortization of (gain) loss, amortization of transition (asset) obligation, settlement (gain) loss, curtailment (gain) loss and certain termination benefits." } } }, "auth_ref": ["r467"] }, "us-gaap_NewAccountingPronouncementsPolicyPolicyTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NewAccountingPronouncementsPolicyPolicyTextBlock", "presentation": ["http://www.luxfer.com/role/BasisofPresentationandResponsibilityforinterimFinancialStatementsPolicies"], "lang": { "en-us": { "role": { "terseLabel": "Accounting standards issued but not yet effective", "label": "New Accounting Pronouncements, Policy [Policy Text Block]", "documentation": "Disclosure of accounting policy pertaining to new accounting pronouncements that may impact the entity's financial reporting. 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A reportable segment is a component of an entity for which there is an accounting requirement to report separate financial information on that component in the entity's financial statements." } } }, "auth_ref": ["r852", "r860", "r1045"] }, "us-gaap_NumberOfReportingUnits": { "xbrltype": "integerItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NumberOfReportingUnits", "presentation": ["http://www.luxfer.com/role/SegmentalInformationAdditionalInformationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Number of operating divisions", "label": "Number of Reporting Units", "documentation": "Number of reporting units tested for impairment of goodwill. A reporting unit is an operating segment or one level below an operating segment." } } }, "auth_ref": [] }, "lxfr_OngoingNumberOfLawsuits": { "xbrltype": "integerItemType", "nsuri": "http://www.luxfer.com/20240630", "localname": "OngoingNumberOfLawsuits", "presentation": ["http://www.luxfer.com/role/CommitmentsandContingenciesAdditionalInformationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Ongoing number of lawsuits", "label": "Ongoing Number of Lawsuits", "documentation": "Ongoing Number of Lawsuits" } } }, "auth_ref": [] }, "us-gaap_OperatingIncomeLoss": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OperatingIncomeLoss", "crdr": "credit", "calculation": { "http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFLOSSINCOMEUNAUDITED": { "parentTag": "us-gaap_IncomeLossFromContinuingOperationsBeforeIncomeTaxesExtraordinaryItemsNoncontrollingInterest", "weight": 1.0, "order": 1.0 } }, "presentation": 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May be provided in more than one note to the financial statements, as long as users are provided with an understanding of (1) the significant judgments and assumptions made by an enterprise in determining whether it must consolidate a VIE and/or disclose information about its involvement with a VIE, (2) the nature of restrictions on a consolidated VIE's assets reported by an enterprise in its statement of financial position, including the carrying amounts of such assets, (3) the nature of, and changes in, the risks associated with an enterprise's involvement with the VIE, and (4) how an enterprise's involvement with the VIE affects the enterprise's financial position, financial performance, and cash flows. Describes procedure if disclosures are provided in more than one note to the financial statements." } } }, "auth_ref": ["r69", "r133", "r134", "r156"] }, "us-gaap_OtherAssetsAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OtherAssetsAbstract", "presentation": ["http://www.luxfer.com/role/SupplementarybalancesheetinformationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Other current assets", "label": "Other Assets [Abstract]" } } }, "auth_ref": [] }, "us-gaap_OtherAssetsCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OtherAssetsCurrent", "crdr": "debit", "calculation": { "http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETSUNAUDITED": { "parentTag": "us-gaap_AssetsCurrent", "weight": 1.0, "order": 2.0 }, "http://www.luxfer.com/role/SupplementarybalancesheetinformationDetails": { "parentTag": null, "weight": null, "order": null, "root": true } }, "presentation": ["http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDBALANCESHEETSUNAUDITED", "http://www.luxfer.com/role/SupplementarybalancesheetinformationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Other current assets", "totalLabel": "Total other current assets", "label": "Other Assets, Current", "documentation": "Amount of current assets classified as other." } } }, "auth_ref": ["r241", "r891"] }, "us-gaap_OtherComprehensiveIncomeDefinedBenefitPlansAdjustmentNetOfTaxPortionAttributableToParent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OtherComprehensiveIncomeDefinedBenefitPlansAdjustmentNetOfTaxPortionAttributableToParent", "crdr": "debit", "calculation": { "http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCOMPREHENSIVELOSSINCOMEUNAUDITED": { "parentTag": "us-gaap_OtherComprehensiveIncomeLossNetOfTaxPortionAttributableToParent", "weight": -1.0, "order": 1.0 } }, "presentation": ["http://www.luxfer.com/role/CONDENSEDCONSOLIDATEDSTATEMENTSOFCOMPREHENSIVELOSSINCOMEUNAUDITED"], "lang": { "en-us": { "role": { "negatedTerseLabel":

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member of immediate family, and other party that may be prevented from pursuing separate interests because of control, significant influence, or ownership interest." } } },
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the major types of costs associated with the plan activities, total expected costs, the accrual balance at the end of the period, and the periods over which the remaining accrual
will be settled." } } }, "auth_ref": ["r374", "r375", "r377", "r380", "r385"] }, "us-gaap_RestructuringAndRelatedCostIncurredCost": { "xbrltype": "monetaryItemType", "nsuri":
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known and estimated obligations associated with exit from or disposal of business activities or restructurings pursuant to a duly authorized plan, which are expected to be
paid in the next twelve months or in the normal operating cycle if longer. Costs of such activities include those for one-time termination benefits, termination of an operating
lease or other contract, consolidating or closing facilities, relocating employees, and costs associated with an ongoing benefit arrangement, but excludes costs associated with
the retirement of a long-lived asset." } } }, "auth_ref": ["r1017", "r1082", "r1083"] }, "us-gaap_RestructuringReserveRollForward": { "xbrltype": "stringItemType", "nsuri":
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Includes, but is not limited to, defined benefit and defined contribution plans." } } }, "auth_ref": ["r468", "r469", "r470", "r471", "r472", "r473", "r474", "r475", "r476", "r477", "r478", "r479", "r480", "r481", "r482", "r483", "r484", "r485", "r486", "r487", "r488", "r489", "r490", "r492", "r493", "r494", "r495", "r496", "r497", "r498", "r499", "r500", "r501", "r502", "r503", "r504", "r505", "r506", "r507", "r508", "r509", "r510", "r511", "r512", "r513", "r514", "r516", "r519", "r522", "r523", "r524", "r525", "r526", "r527", "r528", "r529", "r530", "r531", "r532", "r533", "r534", "r1096", "r1097", "r1098"] }, "us-gaap_RetirementPlanSponsorLocationDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RetirementPlanSponsorLocationDomain", "presentation": ["http://www.luxfer.com/role/PensionSettlementDetails"], "lang": { "en-us": { "role": { "terseLabel": "Retirement Plan Sponsor Location [Domain]", "label": "Retirement Plan Sponsor Location [Domain]", "documentation": "Location of employer sponsoring plan designed to provide retirement benefits. 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Tax collected from customer is tax assessed by governmental authority that is both imposed on and concurrent with specific revenue-producing transaction, including, but not limited to, sales, use, value added and excise." } } }, "auth_ref": ["r170", "r171", "r296", "r305", "r306", "r320", "r326", "r329", "r331", "r333", "r461", "r462", "r645"] }, "us-gaap_RevenueFromContractWithCustomerMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RevenueFromContractWithCustomerMember", "presentation": ["http://www.luxfer.com/role/SegmentalInformationGeographicInformationbyRegionDetails_1"], "lang": { "en-us": { "role": { "terseLabel": "Revenue from Contract with Customer Benchmark", "label": "Revenue from Contract with Customer Benchmark [Member]", "documentation": "Revenue from satisfaction of performance obligation by transferring promised product and service to customer, when it serves as benchmark in concentration of risk calculation." } } }, "auth_ref": ["r333", "r1004"] }, "us-gaap_RevenueFromContractWithCustomerTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RevenueFromContractWithCustomerTextBlock", "presentation": ["http://www.luxfer.com/role/NetSales"], "lang": { "en-us": { "role": { "terseLabel": "Net Sales", "label": "Revenue from Contract with Customer [Text Block]", "documentation": "The entire disclosure of revenue from contract with customer to transfer good or service and to transfer nonfinancial asset. Includes, but is not limited to, disaggregation of revenue, credit loss recognized from contract with customer, judgment and change in judgment related to contract with customer, and asset recognized from cost incurred to obtain or fulfill contract with customer. Excludes insurance and lease contracts." } } }, "auth_ref": ["r176", "r453", "r454", "r455", "r456", "r457", "r458", "r459", "r460", "r463"] }, "us-gaap_RevenuesFromExternalCustomersAndLongLivedAssetsLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RevenuesFromExternalCustomersAndLongLivedAssetsLineItems", "presentation": ["http://www.luxfer.com/role/SegmentalInformationGeographicInformationbyRegionDetails", "http://www.luxfer.com/role/SegmentalInformationGeographicInformationbyRegionDetails_1"], "lang": { "en-us": { "role": { "terseLabel": "Revenues from External Customers and Long-Lived Assets [Line Items]", "label": "Revenues from External Customers and Long-Lived Assets [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": [] }, "us-gaap_RevolvingCreditFacilityMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RevolvingCreditFacilityMember", "presentation": ["http://www.luxfer.com/role/CommitmentsandContingenciesAdditionalInformationDetails", "http://www.luxfer.com/role/DebtAdditionalInformationDetails", "http://www.luxfer.com/role/DebtScheduleofDebtOutstandingDetails"], "lang": { "en-us": { "role": { "terseLabel": "Revolving credit facility", "label": "Revolving Credit Facility [Member]", "documentation": "Arrangement in which loan proceeds can continuously be obtained following repayments, but the total amount borrowed cannot exceed a specified maximum amount." } } }, "auth_ref": [] }, "ecd_Rule10b51ArrAdoptedFlag": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "Rule10b51ArrAdoptedFlag", "presentation": ["http://xbrl.sec.gov/ecd/role/InsiderTradingArrangements"], "lang": { "en-us": { "role": { "terseLabel": "Rule 10b5-1 Arrangement Adopted", "label": "Rule 10b5-1 Arrangement Adopted [Flag]" } } }, "auth_ref": ["r992"] }, "ecd_Rule10b51ArrTrmntdFlag": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "Rule10b51ArrTrmntdFlag", "presentation": ["http://xbrl.sec.gov/ecd/role/InsiderTradingArrangements"], "lang": { "en-us": { "role": { "terseLabel": "Rule 10b5-1 Arrangement Terminated", "label": "Rule 10b5-1 Arrangement Terminated [Flag]" } } }, "auth_ref": ["r992"] }, "srt_ScheduleOfCondensedBalanceSheetTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "ScheduleOfCondensedBalanceSheetTableTextBlock", "presentation": ["http://www.luxfer.com/role/SupplementarybalancesheetinformationTables"], "lang": { "en-us": { "role": { "terseLabel": "Condensed balance sheet", "label": "Condensed Balance Sheet [Table Text Block]", "documentation": "Tabular disclosure of condensed balance sheet, including, but not limited to, balance sheets of consolidated entities and consolidation eliminations." } } }, "auth_ref": ["r1006", "r1037"] }, "us-gaap_ScheduleOfDebtTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfDebtTableTextBlock", "presentation": ["http://www.luxfer.com/role/DebtTables"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Debt", "label": "Schedule of Debt [Table Text Block]", "documentation": "Tabular disclosure of information pertaining to short-term and long-debt instruments or arrangements, including but not limited to identification of terms, features, collateral requirements and other information necessary to a fair presentation." } } }, "auth_ref": [] }, "us-gaap_ScheduleOfDefinedBenefitPlansDisclosuresTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfDefinedBenefitPlansDisclosuresTable", "presentation": ["http://www.luxfer.com/role/PensionSettlementDetails"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Defined Benefit Plans Disclosures [Table]", "label": "Defined Benefit Plan [Table]", "documentation": "Disclosure of information about individual defined benefit pension plan or other postretirement defined benefit plan. It may be appropriate to group certain similar plans. Also includes schedule for fair value of plan assets by major categories of plan assets by the level within the fair value hierarchy in which the fair value measurements in their entirety fall, segregating fair value measurements using quoted prices in active markets for identical assets or liabilities (Level 1), Significant other observable inputs (Level 2), and significant unobservable inputs (Level 3)." } } }, "auth_ref": ["r17", "r54", "r55", "r56", "r57"] }, "us-gaap_ScheduleOfDisposalGroupsIncludingDiscontinuedOperationsIncomeStatementBalanceSheetAndAdditionalDisclosuresTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfDisposalGroupsIncludingDiscontinuedOperationsIncomeStatementBalanceSheetAndAdditionalDisclosuresTextBlock", "presentation": ["http://www.luxfer.com/role/AcquisitionanddisposalrelatedcostsTables", "http://www.luxfer.com/role/DiscontinuedOperationsTables", "http://www.luxfer.com/role/HeldforsaleassetsandliabilitiesTables"], "lang": { "en-us": { "role": { "netLabel": "Schedule of Acquisition and Disposal Cost", "verboseLabel": "Schedule of Results of Discontinued Operations", "terseLabel": "Schedule of Current Held-for-Sale Assets and Liabilities", "label": "Disposal Groups, Including Discontinued Operations [Table Text Block]", "documentation": "Tabular disclosure of information related to a disposal group. Includes, but is not limited to, a discontinued operation, disposal classified as held-for-sale or disposed of by means other than sale or disposal of an individually significant component." } } }, "auth_ref": ["r16", "r20", "r24", "r71", "r80", "r81", "r82", "r83", "r84", "r90", "r92", "r93", "r143"] }, "us-gaap_ScheduleOfEarningsPerShareBasicAndDilutedTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfEarningsPerShareBasicAndDilutedTableTextBlock", "presentation": ["http://www.luxfer.com/role/EarningspershareTables"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of earnings per share", "label": "Schedule of Earnings Per Share, Basic and Diluted [Table Text Block]", "documentation": "Tabular disclosure of an entity's basic and diluted earnings per share calculations, including a reconciliation of numerators and denominators of the basic and diluted per-share computations for income from continuing operations." } } }, "auth_ref": ["r1043"] }, "us-gaap_ScheduleOfEmployeeServiceShareBasedCompensationAllocationOfRecognizedPeriodCostsTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfEmployeeServiceShareBasedCompensationAllocationOfRecognizedPeriodCostsTextBlock", "presentation": ["http://www.luxfer.com/role/SharePlansTables"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Share-based Compensation Expense", "label": "Share-Based Payment Arrangement, Expensed and Capitalized, Amount [Table Text Block]", "documentation": "Tabular disclosure of allocation of amount expensed and capitalized for award under share-based payment arrangement to statement of income or comprehensive income and statement of financial position. 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Excludes indefinite-lived intangible asset." } } }, "auth_ref": ["r355", "r361", "r364", "r365", "r366", "r646", "r838", "r863"] }, "us-gaap_ScheduleOfFiniteLivedIntangibleAssetsTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfFiniteLivedIntangibleAssetsTableTextBlock", "presentation": ["http://www.luxfer.com/role/GoodwillandotheridentifiableintangibleassetsTables"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Intangible Assets", "label": "Schedule of Finite-Lived Intangible Assets [Table Text Block]", "documentation": "Tabular disclosure of assets, excluding financial assets and goodwill, lacking physical substance with a finite life, by either major class or business segment." } } }, "auth_ref": ["r863", "r1071"] }, "us-gaap_ScheduleOfGoodwillTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfGoodwillTable", "presentation": ["http://www.luxfer.com/role/GoodwillandotheridentifiableintangibleassetsScheduleofGoodwillDetails"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Goodwill [Table]", "label": "Goodwill [Table]", "documentation": "Disclosure of information about goodwill, including, but not limited to, change from acquisition, sale, impairment, and other reason." } } }, "auth_ref": ["r344", "r345", "r346", "r347", "r348", "r349", "r350", "r351", "r352", "r353", "r354", "r862"] }, "us-gaap_ScheduleOfGoodwillTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfGoodwillTextBlock", "presentation": ["http://www.luxfer.com/role/GoodwillandotheridentifiableintangibleassetsTables"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Goodwill", "label": "Schedule of Goodwill [Table Text Block]", "documentation": "Tabular disclosure of goodwill by reportable segment and in total which includes a rollforward schedule." } } }, "auth_ref": [

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period to the amount of an accrued liability for restructuring activities. This element may be used to encapsulate the roll forward presentations of an entity's restructuring
reserve by type of cost and in total, and explanation of changes that occurred in the period." } } }, "auth_ref": [ "r43", "r146" ] }, "us-
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information concerning material long-lived assets (excluding financial instruments, customer relationships with financial institutions, mortgage and other servicing rights,
deferred policy acquisition costs, and deferred taxes assets) located in identified geographic areas and/or the amount of revenue from external customers attributed to that
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segment. An entity discloses certain information on each reportable segment if the amounts (a) are included in the measure of segment profit or loss reviewed by the chief
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internal and external, of all operating segments b) the absolute amount of its reported profit or loss is 10 percent or more of the greater, in absolute amount of 1) the
combined reported profit of all operating segments that did not report a loss or 2) the combined reported loss of all operating segments that did report a loss c) its assets are
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General and administrative expenses include salaries of non-sales personnel, rent, utilities, communication, etc." } } }, "auth_ref": ["r125"] }, "us-gaap_SeniorNotesMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SeniorNotesMember", "presentation": ["http://www.luxfer.com/role/DebtScheduleofDebtOutstandingDetails"], "lang": { "en-us": { "role": { "terseLabel": "Loan Notes", "label": "Senior Notes [Member]", "documentation": "Bond that takes priority over other debt securities sold by the issuer. In the event the issuer goes bankrupt, senior debt holders receive priority for (must receive) repayment prior to (relative to) junior and unsecured (general) creditors." } } }, "auth_ref": [] }, "us-gaap_SeveranceCosts1": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SeveranceCosts1", "crdr": "debit", "calculation": { "http://www.luxfer.com/role/RestructuringScheduleofRestructuringRelatedCostsDetails": { "parentTag": "us-gaap_RestructuringSettlementAndImpairmentProvisions", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://www.luxfer.com/role/RestructuringScheduleofRestructuringRelatedCostsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Severance and other costs", "label": "Severance Costs", "documentation": "Amount of expenses for special or contractual termination benefits provided to current employees involuntarily terminated under a benefit arrangement associated exit or disposal activities pursuant to an authorized plan. 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Volatility also may be defined as a probability-weighted measure of the dispersion of returns about the mean. The volatility of a share price is the standard deviation of the continuously compounded rates of return on the share over a specified period. That is the same as the standard deviation of the differences in the natural logarithms of the stock prices plus dividends, if any, over the period." } } }, "auth_ref": [] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsExpectedVolatilityRateMinimum": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsExpectedVolatilityRateMinimum", "presentation": ["http://www.luxfer.com/role/SharePlansShareOptionsFairValueAssumptionsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Expected volatility range (%), minimum", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Expected Volatility Rate, Minimum", "documentation": "The estimated measure of the minimum percentage by which a share price is expected to fluctuate during a period. Volatility also may be defined as a probability-weighted measure of the dispersion of returns about the mean. The volatility of a share price is the standard deviation of the continuously compounded rates of return on the share over a specified period. That is the same as the standard deviation of the differences in the natural logarithms of the stock prices plus dividends, if any, over the period." } } }, "auth_ref": [] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsRiskFreeInterestRateMaximum": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsRiskFreeInterestRateMaximum", "presentation": ["http://www.luxfer.com/role/SharePlansShareOptionsFairValueAssumptionsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Risk-free interest rate (%), maximum", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Risk Free Interest Rate, Maximum", "documentation": "The maximum risk-free interest rate assumption that is used in valuing an option on its own shares." } } }, "auth_ref": [] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsRiskFreeInterestRateMinimum": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsRiskFreeInterestRateMinimum", "presentation": ["http://www.luxfer.com/role/SharePlansShareOptionsFairValueAssumptionsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Risk-free interest rate (%), minimum", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Fair Value Assumptions, Risk Free Interest Rate, Minimum", "documentation": "The minimum risk-free interest rate assumption that is used in valuing an option on its own shares." } } }, "auth_ref": [] }, "lxfr_ShareBasedCompensationArrangementByShareBasedPaymentAwardForfeitureRate": { "xbrltype": "percentItemType", "nsuri": "http://www.luxfer.com/20240630", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardForfeitureRate", "presentation": ["http://www.luxfer.com/role/SharePlansShareOptionsFairValueAssumptionsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Forfeiture rate (%)", "label": "Share-Based Compensation Arrangement By Share-Based Payment Award, Forfeiture Rate", "documentation": "Share-Based Compensation Arrangement By Share-Based Payment Award, Forfeiture Rate" } } }, "auth_ref": [] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardLineItems", "presentation": ["http://www.luxfer.com/role/SharePlansAdditionalInformationDetails", "http://www.luxfer.com/role/SharePlansShareOptionsFairValueAssumptionsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Share-based Compensation Arrangement by Share-based Payment Award [Line Items]", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award [Line Items]", "documentation": "Line items represent financial concepts included in a table. 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~~Settlement<div style="margin-bottom:6pt;margin-top:8pt;text-align:justify">In the first quarter of 2023, there was a $9.2 million charge in relation to the sale of the U.S. pension plan liability to an insurer, which included $2.3 million cash and $6.9 million in relation to the derecognition of the U.S. pension liability and reallocation of accumulated actuarial losses from other comprehensive income. This was partially offset by a $0.3 million defined benefit credit on the U.K. pension plan.</div>920000023000006900000-300000Subsequent Events<div>Other than those disclosed elsewhere in the note to the financial statements, no material subsequent events to report.</div>falsefalsefalsefalse~~ ~~The calculation of earnings per share is performed separately for continuing and discontinued operations. As a result, the sum of the two in any particular period may not equal the earnings-per-share amount in total.– The loss per share for discontinued operations has not been diluted, since the incremental shares included in the weighted-average number of shares outstanding would have been anti-dilutive.~~