

Global Synthetic Metalworking Fluid Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Synthetic Metalworking Fluid competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. Synthetic metalworking fluid is a fully formulated, water-soluble coolant and lubricant made without mineral oil, instead using engineered chemical components such as synthetic esters, polyalkylene glycols (PAGs), corrosion inhibitors, biocides, boundary-lubrication additives, antifoaming agents, and pH stabilizers to provide clean machining performance with excellent cooling, low residue, and long sump life. Its supply chain begins with upstream petrochemical and specialty-chemical producers supplying base synthetic polymers, amines, organic acids, emulsifiers, and performance additives; midstream formulators and blending plants then compound these ingredients into concentrates and perform quality-control testing for stability, corrosion performance, and microbial resistance; downstream distribution involves industrial chemical distributors, MRO suppliers, and direct OEM supply agreements with machine shops, automotive and aerospace component manufacturers, metal stamping operations, and precision machining facilities that use synthetic fluids for grinding, turning, milling, drilling, and high-pressure CNC operations. In 2024, global synthetic metalworking fluid output reached 1.32 million tons, supported by 1.55 million tons of capacity. Prices averaged USD 1,650-3,400 per ton, and the industry operated with a 28% gross margin.

The global Synthetic Metalworking Fluid market size was estimated at USD 2350.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 5.10% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Synthetic Metalworking Fluid market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Synthetic Metalworking Fluid market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Synthetic Metalworking Fluid market.

Global Synthetic Metalworking Fluid Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Quaker Houghton (USA)
ExxonMobil (USA)

Fuchs Petrolub (Germany)
TotalEnergies (France)
Chevron Phillips (USA)
BP Group (UK)
Shell (Netherlands)
Idemitsu Kosan (Japan)
PETRONAS (Malaysia)
LUKOIL Lubricants (Russia)
Blaser Swissslube (Switzerland)
Motul Industrial (France)
Henkel (Germany)
Master Fluid (USA)
Chem Arrow (USA)
Precision Fluids (USA)
BASF (Germany)
Oelheld (Germany)
Moresco (Japan)
Yushiro Chemical (Japan)

Market Segmentation (by Type)

Polyalkylene Glycol Synthetics
Ester Synthetics
Amine-borate Synthetics
Silicate Synthetics
Amine-carboxylate Synthetics

Market Segmentation (by Application)

Machining Operation
Grinding Operation
Cutting & Shaping
Light Metal Forming
Others

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Synthetic Metalworking Fluid Market
Overview of the regional outlook of the Synthetic Metalworking Fluid Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Synthetic Metalworking Fluid Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Synthetic Metalworking Fluid, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change
This enables you to anticipate market changes to remain ahead of your competitors
You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Synthetic Metalworking Fluid
- 1.2 Key Market Segments
 - 1.2.1 Synthetic Metalworking Fluid Segment by Type
 - 1.2.2 Synthetic Metalworking Fluid Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 SYNTHETIC METALWORKING FLUID MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Synthetic Metalworking Fluid Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Synthetic Metalworking Fluid Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 SYNTHETIC METALWORKING FLUID MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Synthetic Metalworking Fluid Product Life Cycle
- 3.3 Global Synthetic Metalworking Fluid Sales by Manufacturers (2020-2025)
- 3.4 Global Synthetic Metalworking Fluid Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Synthetic Metalworking Fluid Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Synthetic Metalworking Fluid Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Synthetic Metalworking Fluid Market Competitive Situation and Trends
 - 3.8.1 Synthetic Metalworking Fluid Market Concentration Rate
 - 3.8.2 Global 5 and 10 Largest Synthetic Metalworking Fluid Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 SYNTHETIC METALWORKING FLUID INDUSTRY CHAIN ANALYSIS

4.1 Synthetic Metalworking Fluid Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF SYNTHETIC METALWORKING FLUID MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Synthetic Metalworking Fluid Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Synthetic Metalworking Fluid Market

5.7 ESG Ratings of Leading Companies

6 SYNTHETIC METALWORKING FLUID MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Synthetic Metalworking Fluid Sales Market Share by Type (2020-2025)

6.3 Global Synthetic Metalworking Fluid Market Size by Type (2020-2025)

6.4 Global Synthetic Metalworking Fluid Price by Type (2020-2025)

7 SYNTHETIC METALWORKING FLUID MARKET SEGMENTATION BY

APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Synthetic Metalworking Fluid Market Sales by Application (2020-2025)
- 7.3 Global Synthetic Metalworking Fluid Market Size (M USD) by Application (2020-2025)
- 7.4 Global Synthetic Metalworking Fluid Sales Growth Rate by Application (2020-2025)

8 SYNTHETIC METALWORKING FLUID MARKET SALES BY REGION

- 8.1 Global Synthetic Metalworking Fluid Sales by Region
 - 8.1.1 Global Synthetic Metalworking Fluid Sales by Region
 - 8.1.2 Global Synthetic Metalworking Fluid Sales Market Share by Region
- 8.2 Global Synthetic Metalworking Fluid Market Size by Region
 - 8.2.1 Global Synthetic Metalworking Fluid Market Size by Region
 - 8.2.2 Global Synthetic Metalworking Fluid Market Size by Region
- 8.3 North America
 - 8.3.1 North America Synthetic Metalworking Fluid Sales by Country
 - 8.3.2 North America Synthetic Metalworking Fluid Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Synthetic Metalworking Fluid Sales by Country
 - 8.4.2 Europe Synthetic Metalworking Fluid Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific Synthetic Metalworking Fluid Sales by Region
 - 8.5.2 Asia Pacific Synthetic Metalworking Fluid Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview
 - 8.5.7 Southeast Asia Market Overview
- 8.6 South America

- 8.6.1 South America Synthetic Metalworking Fluid Sales by Country
- 8.6.2 South America Synthetic Metalworking Fluid Market Size by Country
- 8.6.3 Brazil Market Overview
- 8.6.4 Argentina Market Overview
- 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Synthetic Metalworking Fluid Sales by Region
 - 8.7.2 Middle East and Africa Synthetic Metalworking Fluid Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 SYNTHETIC METALWORKING FLUID MARKET PRODUCTION BY REGION

- 9.1 Global Production of Synthetic Metalworking Fluid by Region(2020-2025)
- 9.2 Global Synthetic Metalworking Fluid Revenue Market Share by Region (2020-2025)
- 9.3 Global Synthetic Metalworking Fluid Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Synthetic Metalworking Fluid Production
 - 9.4.1 North America Synthetic Metalworking Fluid Production Growth Rate (2020-2025)
 - 9.4.2 North America Synthetic Metalworking Fluid Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Synthetic Metalworking Fluid Production
 - 9.5.1 Europe Synthetic Metalworking Fluid Production Growth Rate (2020-2025)
 - 9.5.2 Europe Synthetic Metalworking Fluid Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Synthetic Metalworking Fluid Production (2020-2025)
 - 9.6.1 Japan Synthetic Metalworking Fluid Production Growth Rate (2020-2025)
 - 9.6.2 Japan Synthetic Metalworking Fluid Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Synthetic Metalworking Fluid Production (2020-2025)
 - 9.7.1 China Synthetic Metalworking Fluid Production Growth Rate (2020-2025)
 - 9.7.2 China Synthetic Metalworking Fluid Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Quaker Houghton (USA)

10.1.1 Quaker Houghton (USA) Basic Information

10.1.2 Quaker Houghton (USA) Synthetic Metalworking Fluid Product Overview

10.1.3 Quaker Houghton (USA) Synthetic Metalworking Fluid Product Market

Performance

10.1.4 Quaker Houghton (USA) Business Overview

10.1.5 Quaker Houghton (USA) SWOT Analysis

10.1.6 Quaker Houghton (USA) Recent Developments

10.2 ExxonMobil (USA)

10.2.1 ExxonMobil (USA) Basic Information

10.2.2 ExxonMobil (USA) Synthetic Metalworking Fluid Product Overview

10.2.3 ExxonMobil (USA) Synthetic Metalworking Fluid Product Market Performance

10.2.4 ExxonMobil (USA) Business Overview

10.2.5 ExxonMobil (USA) SWOT Analysis

10.2.6 ExxonMobil (USA) Recent Developments

10.3 Fuchs Petrolub (Germany)

10.3.1 Fuchs Petrolub (Germany) Basic Information

10.3.2 Fuchs Petrolub (Germany) Synthetic Metalworking Fluid Product Overview

10.3.3 Fuchs Petrolub (Germany) Synthetic Metalworking Fluid Product Market

Performance

10.3.4 Fuchs Petrolub (Germany) Business Overview

10.3.5 Fuchs Petrolub (Germany) SWOT Analysis

10.3.6 Fuchs Petrolub (Germany) Recent Developments

10.4 TotalEnergies (France)

10.4.1 TotalEnergies (France) Basic Information

10.4.2 TotalEnergies (France) Synthetic Metalworking Fluid Product Overview

10.4.3 TotalEnergies (France) Synthetic Metalworking Fluid Product Market

Performance

10.4.4 TotalEnergies (France) Business Overview

10.4.5 TotalEnergies (France) Recent Developments

10.5 Chevron Phillips (USA)

10.5.1 Chevron Phillips (USA) Basic Information

10.5.2 Chevron Phillips (USA) Synthetic Metalworking Fluid Product Overview

10.5.3 Chevron Phillips (USA) Synthetic Metalworking Fluid Product Market

Performance

10.5.4 Chevron Phillips (USA) Business Overview

10.5.5 Chevron Phillips (USA) Recent Developments

10.6 BP Group (UK)

- 10.6.1 BP Group (UK) Basic Information
- 10.6.2 BP Group (UK) Synthetic Metalworking Fluid Product Overview
- 10.6.3 BP Group (UK) Synthetic Metalworking Fluid Product Market Performance
- 10.6.4 BP Group (UK) Business Overview
- 10.6.5 BP Group (UK) Recent Developments
- 10.7 Shell (Netherlands)
 - 10.7.1 Shell (Netherlands) Basic Information
 - 10.7.2 Shell (Netherlands) Synthetic Metalworking Fluid Product Overview
 - 10.7.3 Shell (Netherlands) Synthetic Metalworking Fluid Product Market Performance
 - 10.7.4 Shell (Netherlands) Business Overview
 - 10.7.5 Shell (Netherlands) Recent Developments
- 10.8 Idemitsu Kosan (Japan)
 - 10.8.1 Idemitsu Kosan (Japan) Basic Information
 - 10.8.2 Idemitsu Kosan (Japan) Synthetic Metalworking Fluid Product Overview
 - 10.8.3 Idemitsu Kosan (Japan) Synthetic Metalworking Fluid Product Market Performance
 - 10.8.4 Idemitsu Kosan (Japan) Business Overview
 - 10.8.5 Idemitsu Kosan (Japan) Recent Developments
- 10.9 PETRONAS (Malaysia)
 - 10.9.1 PETRONAS (Malaysia) Basic Information
 - 10.9.2 PETRONAS (Malaysia) Synthetic Metalworking Fluid Product Overview
 - 10.9.3 PETRONAS (Malaysia) Synthetic Metalworking Fluid Product Market Performance
 - 10.9.4 PETRONAS (Malaysia) Business Overview
 - 10.9.5 PETRONAS (Malaysia) Recent Developments
- 10.10 LUKOIL Lubricants (Russia)
 - 10.10.1 LUKOIL Lubricants (Russia) Basic Information
 - 10.10.2 LUKOIL Lubricants (Russia) Synthetic Metalworking Fluid Product Overview
 - 10.10.3 LUKOIL Lubricants (Russia) Synthetic Metalworking Fluid Product Market Performance
 - 10.10.4 LUKOIL Lubricants (Russia) Business Overview
 - 10.10.5 LUKOIL Lubricants (Russia) Recent Developments
- 10.11 Blaser Swissslube (Switzerland)
 - 10.11.1 Blaser Swissslube (Switzerland) Basic Information
 - 10.11.2 Blaser Swissslube (Switzerland) Synthetic Metalworking Fluid Product Overview
 - 10.11.3 Blaser Swissslube (Switzerland) Synthetic Metalworking Fluid Product Market Performance
 - 10.11.4 Blaser Swissslube (Switzerland) Business Overview

- 10.11.5 Blaser Swissslube (Switzerland) Recent Developments
- 10.12 Motul Industrial (France)
 - 10.12.1 Motul Industrial (France) Basic Information
 - 10.12.2 Motul Industrial (France) Synthetic Metalworking Fluid Product Overview
 - 10.12.3 Motul Industrial (France) Synthetic Metalworking Fluid Product Market Performance
 - 10.12.4 Motul Industrial (France) Business Overview
 - 10.12.5 Motul Industrial (France) Recent Developments
- 10.13 Henkel (Germany)
 - 10.13.1 Henkel (Germany) Basic Information
 - 10.13.2 Henkel (Germany) Synthetic Metalworking Fluid Product Overview
 - 10.13.3 Henkel (Germany) Synthetic Metalworking Fluid Product Market Performance
 - 10.13.4 Henkel (Germany) Business Overview
 - 10.13.5 Henkel (Germany) Recent Developments
- 10.14 Master Fluid (USA)
 - 10.14.1 Master Fluid (USA) Basic Information
 - 10.14.2 Master Fluid (USA) Synthetic Metalworking Fluid Product Overview
 - 10.14.3 Master Fluid (USA) Synthetic Metalworking Fluid Product Market Performance
 - 10.14.4 Master Fluid (USA) Business Overview
 - 10.14.5 Master Fluid (USA) Recent Developments
- 10.15 Chem Arrow (USA)
 - 10.15.1 Chem Arrow (USA) Basic Information
 - 10.15.2 Chem Arrow (USA) Synthetic Metalworking Fluid Product Overview
 - 10.15.3 Chem Arrow (USA) Synthetic Metalworking Fluid Product Market Performance
 - 10.15.4 Chem Arrow (USA) Business Overview
 - 10.15.5 Chem Arrow (USA) Recent Developments
- 10.16 Precision Fluids (USA)
 - 10.16.1 Precision Fluids (USA) Basic Information
 - 10.16.2 Precision Fluids (USA) Synthetic Metalworking Fluid Product Overview
 - 10.16.3 Precision Fluids (USA) Synthetic Metalworking Fluid Product Market Performance
 - 10.16.4 Precision Fluids (USA) Business Overview
 - 10.16.5 Precision Fluids (USA) Recent Developments
- 10.17 BASF (Germany)
 - 10.17.1 BASF (Germany) Basic Information
 - 10.17.2 BASF (Germany) Synthetic Metalworking Fluid Product Overview
 - 10.17.3 BASF (Germany) Synthetic Metalworking Fluid Product Market Performance
 - 10.17.4 BASF (Germany) Business Overview
 - 10.17.5 BASF (Germany) Recent Developments

10.18 Oelheld (Germany)

10.18.1 Oelheld (Germany) Basic Information

10.18.2 Oelheld (Germany) Synthetic Metalworking Fluid Product Overview

10.18.3 Oelheld (Germany) Synthetic Metalworking Fluid Product Market Performance

10.18.4 Oelheld (Germany) Business Overview

10.18.5 Oelheld (Germany) Recent Developments

10.19 Moresco (Japan)

10.19.1 Moresco (Japan) Basic Information

10.19.2 Moresco (Japan) Synthetic Metalworking Fluid Product Overview

10.19.3 Moresco (Japan) Synthetic Metalworking Fluid Product Market Performance

10.19.4 Moresco (Japan) Business Overview

10.19.5 Moresco (Japan) Recent Developments

10.20 Yushiro Chemical (Japan)

10.20.1 Yushiro Chemical (Japan) Basic Information

10.20.2 Yushiro Chemical (Japan) Synthetic Metalworking Fluid Product Overview

10.20.3 Yushiro Chemical (Japan) Synthetic Metalworking Fluid Product Market

Performance

10.20.4 Yushiro Chemical (Japan) Business Overview

10.20.5 Yushiro Chemical (Japan) Recent Developments

11 SYNTHETIC METALWORKING FLUID MARKET FORECAST BY REGION

11.1 Global Synthetic Metalworking Fluid Market Size Forecast

11.2 Global Synthetic Metalworking Fluid Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Synthetic Metalworking Fluid Market Size Forecast by Country

11.2.3 Asia Pacific Synthetic Metalworking Fluid Market Size Forecast by Region

11.2.4 South America Synthetic Metalworking Fluid Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Synthetic Metalworking Fluid by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global Synthetic Metalworking Fluid Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Synthetic Metalworking Fluid by Type (2026-2035)

12.1.2 Global Synthetic Metalworking Fluid Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Synthetic Metalworking Fluid by Type (2026-2035)

12.2 Global Synthetic Metalworking Fluid Market Forecast by Application (2026-2035)

12.2.1 Global Synthetic Metalworking Fluid Sales (K MT) Forecast by Application

12.2.2 Global Synthetic Metalworking Fluid Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

- Table 1. Introduction of the Type
- Table 2. Introduction of the Application
- Table 3. Global Synthetic Metalworking Fluid Market Size by Type (M USD)
- Table 4. Global Synthetic Metalworking Fluid Market Size by Application
- Table 5. Synthetic Metalworking Fluid Market Size Comparison by Region (M USD)
- Table 6. Global Synthetic Metalworking Fluid Sales (K MT) by Manufacturers (2020-2025)
- Table 7. Global Synthetic Metalworking Fluid Sales Market Share by Manufacturers (2020-2025)
- Table 8. Global Synthetic Metalworking Fluid Revenue (M USD) by Manufacturers (2020-2025)
- Table 9. Global Synthetic Metalworking Fluid Revenue Share by Manufacturers (2020-2025)
- Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Synthetic Metalworking Fluid as of 2025)
- Table 11. Global Market Synthetic Metalworking Fluid Average Price (USD/KG) of Key Manufacturers (2020-2025)
- Table 12. Manufacturers? Manufacturing Sites, Areas Served
- Table 13. Manufacturers? Product Type
- Table 14. Global Synthetic Metalworking Fluid Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 15. Mergers & Acquisitions, Expansion Plans
- Table 16. Market Overview of Key Raw Materials
- Table 17. Midstream Market Analysis
- Table 18. Downstream Customer Analysis
- Table 19. Key Development Trends
- Table 20. Driving Factors
- Table 21. Synthetic Metalworking Fluid Market Challenges
- Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026
- Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027
- Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026
- Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries
- Table 26. Global Synthetic Metalworking Fluid Sales by Type (K MT)
- Table 27. Global Synthetic Metalworking Fluid Market Size by Type (M USD)

- Table 28. Global Synthetic Metalworking Fluid Sales (K MT) by Type (2020-2025)
- Table 29. Global Synthetic Metalworking Fluid Sales Market Share by Type (2020-2025)
- Table 30. Global Synthetic Metalworking Fluid Market Size (M USD) by Type (2020-2025)
- Table 31. Global Synthetic Metalworking Fluid Market Share by Type (2020-2025)
- Table 32. Global Synthetic Metalworking Fluid Price (USD/KG) by Type (2020-2025)
- Table 33. Global Synthetic Metalworking Fluid Sales (K MT) by Application
- Table 34. Global Synthetic Metalworking Fluid Market Size by Application
- Table 35. Global Synthetic Metalworking Fluid Sales by Application (2020-2025) & (K MT)
- Table 36. Global Synthetic Metalworking Fluid Sales Market Share by Application (2020-2025)
- Table 37. Global Synthetic Metalworking Fluid Market Size by Application (2020-2025) & (M USD)
- Table 38. Global Synthetic Metalworking Fluid Market Share by Application (2020-2025)
- Table 39. Global Synthetic Metalworking Fluid Sales Growth Rate by Application (2020-2025)
- Table 40. Global Synthetic Metalworking Fluid Sales by Region (2020-2025) & (K MT)
- Table 41. Global Synthetic Metalworking Fluid Sales Market Share by Region (2020-2025)
- Table 42. Global Synthetic Metalworking Fluid Market Size by Region (2020-2025) & (M USD)
- Table 43. Global Synthetic Metalworking Fluid Market Size by Region (2020-2025)
- Table 44. North America Synthetic Metalworking Fluid Sales by Country (2020-2025) & (K MT)
- Table 45. North America Synthetic Metalworking Fluid Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe Synthetic Metalworking Fluid Sales by Country (2020-2025) & (K MT)
- Table 47. Europe Synthetic Metalworking Fluid Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific Synthetic Metalworking Fluid Sales by Region (2020-2025) & (K MT)
- Table 49. Asia Pacific Synthetic Metalworking Fluid Market Size by Region (2020-2025) & (M USD)
- Table 50. South America Synthetic Metalworking Fluid Sales by Country (2020-2025) & (K MT)
- Table 51. South America Synthetic Metalworking Fluid Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa Synthetic Metalworking Fluid Sales by Region

(2020-2025) & (K MT)

Table 53. Middle East and Africa Synthetic Metalworking Fluid Market Size by Region (2020-2025) & (M USD)

Table 54. Global Synthetic Metalworking Fluid Production (K MT) by Region(2020-2025)

Table 55. Global Synthetic Metalworking Fluid Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Synthetic Metalworking Fluid Revenue Market Share by Region (2020-2025)

Table 57. Global Synthetic Metalworking Fluid Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 58. North America Synthetic Metalworking Fluid Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 59. Europe Synthetic Metalworking Fluid Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 60. Japan Synthetic Metalworking Fluid Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 61. China Synthetic Metalworking Fluid Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 62. Quaker Houghton (USA) Basic Information

Table 63. Quaker Houghton (USA) Synthetic Metalworking Fluid Product Overview

Table 64. Quaker Houghton (USA) Synthetic Metalworking Fluid Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 65. Quaker Houghton (USA) Business Overview

Table 66. Quaker Houghton (USA) SWOT Analysis

Table 67. Quaker Houghton (USA) Recent Developments

Table 68. ExxonMobil (USA) Basic Information

Table 69. ExxonMobil (USA) Synthetic Metalworking Fluid Product Overview

Table 70. ExxonMobil (USA) Synthetic Metalworking Fluid Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 71. ExxonMobil (USA) Business Overview

Table 72. ExxonMobil (USA) SWOT Analysis

Table 73. ExxonMobil (USA) Recent Developments

Table 74. Fuchs Petrolub (Germany) Basic Information

Table 75. Fuchs Petrolub (Germany) Synthetic Metalworking Fluid Product Overview

Table 76. Fuchs Petrolub (Germany) Synthetic Metalworking Fluid Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 77. Fuchs Petrolub (Germany) Business Overview

Table 78. Fuchs Petrolub (Germany) SWOT Analysis

Table 79. Fuchs Petrolub (Germany) Recent Developments

- Table 80. TotalEnergies (France) Basic Information
- Table 81. TotalEnergies (France) Synthetic Metalworking Fluid Product Overview
- Table 82. TotalEnergies (France) Synthetic Metalworking Fluid Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 83. TotalEnergies (France) Business Overview
- Table 84. TotalEnergies (France) Recent Developments
- Table 85. Chevron Phillips (USA) Basic Information
- Table 86. Chevron Phillips (USA) Synthetic Metalworking Fluid Product Overview
- Table 87. Chevron Phillips (USA) Synthetic Metalworking Fluid Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 88. Chevron Phillips (USA) Business Overview
- Table 89. Chevron Phillips (USA) Recent Developments
- Table 90. BP Group (UK) Basic Information
- Table 91. BP Group (UK) Synthetic Metalworking Fluid Product Overview
- Table 92. BP Group (UK) Synthetic Metalworking Fluid Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 93. BP Group (UK) Business Overview
- Table 94. BP Group (UK) Recent Developments
- Table 95. Shell (Netherlands) Basic Information
- Table 96. Shell (Netherlands) Synthetic Metalworking Fluid Product Overview
- Table 97. Shell (Netherlands) Synthetic Metalworking Fluid Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 98. Shell (Netherlands) Business Overview
- Table 99. Shell (Netherlands) Recent Developments
- Table 100. Idemitsu Kosan (Japan) Basic Information
- Table 101. Idemitsu Kosan (Japan) Synthetic Metalworking Fluid Product Overview
- Table 102. Idemitsu Kosan (Japan) Synthetic Metalworking Fluid Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 103. Idemitsu Kosan (Japan) Business Overview
- Table 104. Idemitsu Kosan (Japan) Recent Developments
- Table 105. PETRONAS (Malaysia) Basic Information
- Table 106. PETRONAS (Malaysia) Synthetic Metalworking Fluid Product Overview
- Table 107. PETRONAS (Malaysia) Synthetic Metalworking Fluid Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 108. PETRONAS (Malaysia) Business Overview
- Table 109. PETRONAS (Malaysia) Recent Developments
- Table 110. LUKOIL Lubricants (Russia) Basic Information
- Table 111. LUKOIL Lubricants (Russia) Synthetic Metalworking Fluid Product Overview
- Table 112. LUKOIL Lubricants (Russia) Synthetic Metalworking Fluid Sales (K MT),

Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 113. LUKOIL Lubricants (Russia) Business Overview

Table 114. LUKOIL Lubricants (Russia) Recent Developments

Table 115. Blaser Swissslube (Switzerland) Basic Information

Table 116. Blaser Swissslube (Switzerland) Synthetic Metalworking Fluid Product Overview

Table 117. Blaser Swissslube (Switzerland) Synthetic Metalworking Fluid Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 118. Blaser Swissslube (Switzerland) Business Overview

Table 119. Blaser Swissslube (Switzerland) Recent Developments

Table 120. Motul Industrial (France) Basic Information

Table 121. Motul Industrial (France) Synthetic Metalworking Fluid Product Overview

Table 122. Motul Industrial (France) Synthetic Metalworking Fluid Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 123. Motul Industrial (France) Business Overview

Table 124. Motul Industrial (France) Recent Developments

Table 125. Henkel (Germany) Basic Information

Table 126. Henkel (Germany) Synthetic Metalworking Fluid Product Overview

Table 127. Henkel (Germany) Synthetic Metalworking Fluid Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 128. Henkel (Germany) Business Overview

Table 129. Henkel (Germany) Recent Developments

Table 130. Master Fluid (USA) Basic Information

Table 131. Master Fluid (USA) Synthetic Metalworking Fluid Product Overview

Table 132. Master Fluid (USA) Synthetic Metalworking Fluid Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 133. Master Fluid (USA) Business Overview

Table 134. Master Fluid (USA) Recent Developments

Table 135. Chem Arrow (USA) Basic Information

Table 136. Chem Arrow (USA) Synthetic Metalworking Fluid Product Overview

Table 137. Chem Arrow (USA) Synthetic Metalworking Fluid Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 138. Chem Arrow (USA) Business Overview

Table 139. Chem Arrow (USA) Recent Developments

Table 140. Precision Fluids (USA) Basic Information

Table 141. Precision Fluids (USA) Synthetic Metalworking Fluid Product Overview

Table 142. Precision Fluids (USA) Synthetic Metalworking Fluid Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 143. Precision Fluids (USA) Business Overview

- Table 144. Precision Fluids (USA) Recent Developments
- Table 145. BASF (Germany) Basic Information
- Table 146. BASF (Germany) Synthetic Metalworking Fluid Product Overview
- Table 147. BASF (Germany) Synthetic Metalworking Fluid Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 148. BASF (Germany) Business Overview
- Table 149. BASF (Germany) Recent Developments
- Table 150. Oelheld (Germany) Basic Information
- Table 151. Oelheld (Germany) Synthetic Metalworking Fluid Product Overview
- Table 152. Oelheld (Germany) Synthetic Metalworking Fluid Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 153. Oelheld (Germany) Business Overview
- Table 154. Oelheld (Germany) Recent Developments
- Table 155. Moresco (Japan) Basic Information
- Table 156. Moresco (Japan) Synthetic Metalworking Fluid Product Overview
- Table 157. Moresco (Japan) Synthetic Metalworking Fluid Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 158. Moresco (Japan) Business Overview
- Table 159. Moresco (Japan) Recent Developments
- Table 160. Yushiro Chemical (Japan) Basic Information
- Table 161. Yushiro Chemical (Japan) Synthetic Metalworking Fluid Product Overview
- Table 162. Yushiro Chemical (Japan) Synthetic Metalworking Fluid Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 163. Yushiro Chemical (Japan) Business Overview
- Table 164. Yushiro Chemical (Japan) Recent Developments
- Table 165. Global Synthetic Metalworking Fluid Sales Forecast by Region (2026-2035) & (K MT)
- Table 166. Global Synthetic Metalworking Fluid Market Size Forecast by Region (2026-2035) & (M USD)
- Table 167. North America Synthetic Metalworking Fluid Sales Forecast by Country (2026-2035) & (K MT)
- Table 168. North America Synthetic Metalworking Fluid Market Size Forecast by Country (2026-2035) & (M USD)
- Table 169. Europe Synthetic Metalworking Fluid Sales Forecast by Country (2026-2035) & (K MT)
- Table 170. Europe Synthetic Metalworking Fluid Market Size Forecast by Country (2026-2035) & (M USD)
- Table 171. Asia Pacific Synthetic Metalworking Fluid Sales Forecast by Region (2026-2035) & (K MT)

Table 172. Asia Pacific Synthetic Metalworking Fluid Market Size Forecast by Region (2026-2035) & (M USD)

Table 173. South America Synthetic Metalworking Fluid Sales Forecast by Country (2026-2035) & (K MT)

Table 174. South America Synthetic Metalworking Fluid Market Size Forecast by Country (2026-2035) & (M USD)

Table 175. Middle East and Africa Synthetic Metalworking Fluid Sales Forecast by Country (2026-2035) & (Units)

Table 176. Middle East and Africa Synthetic Metalworking Fluid Market Size Forecast by Country (2026-2035) & (M USD)

Table 177. Global Synthetic Metalworking Fluid Sales Forecast by Type (2026-2035) & (K MT)

Table 178. Global Synthetic Metalworking Fluid Market Size Forecast by Type (2026-2035) & (M USD)

Table 179. Global Synthetic Metalworking Fluid Price Forecast by Type (2026-2035) & (USD/KG)

Table 180. Global Synthetic Metalworking Fluid Sales (K MT) Forecast by Application (2026-2035)

Table 181. Global Synthetic Metalworking Fluid Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Synthetic Metalworking Fluid
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Synthetic Metalworking Fluid Market Size (M USD), 2025-2035
- Figure 5. Global Synthetic Metalworking Fluid Market Size (M USD) (2020-2035)
- Figure 6. Global Synthetic Metalworking Fluid Sales (K MT) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Synthetic Metalworking Fluid Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Synthetic Metalworking Fluid Product Life Cycle
- Figure 13. Synthetic Metalworking Fluid Sales Share by Manufacturers in 2025
- Figure 14. Global Synthetic Metalworking Fluid Revenue Share by Manufacturers in 2025
- Figure 15. Synthetic Metalworking Fluid Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Synthetic Metalworking Fluid Average Price (USD/KG) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Synthetic Metalworking Fluid Revenue in 2025
- Figure 18. Industry Chain Map of Synthetic Metalworking Fluid
- Figure 19. Global Synthetic Metalworking Fluid Market PEST Analysis
- Figure 20. Global Synthetic Metalworking Fluid Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Synthetic Metalworking Fluid Market Share by Type
- Figure 27. Sales Market Share of Synthetic Metalworking Fluid by Type (2020-2025)
- Figure 28. Sales Market Share of Synthetic Metalworking Fluid by Type in 2025
- Figure 29. Market Share of Synthetic Metalworking Fluid by Type (2020-2025)
- Figure 30. Market Share of Synthetic Metalworking Fluid by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

- Figure 32. Global Synthetic Metalworking Fluid Market Share by Application
- Figure 33. Global Synthetic Metalworking Fluid Sales Market Share by Application (2020-2025)
- Figure 34. Global Synthetic Metalworking Fluid Sales Market Share by Application in 2025
- Figure 35. Global Synthetic Metalworking Fluid Market Share by Application (2020-2025)
- Figure 36. Global Synthetic Metalworking Fluid Market Share by Application in 2025
- Figure 37. Global Synthetic Metalworking Fluid Sales Growth Rate by Application (2020-2025)
- Figure 38. Global Synthetic Metalworking Fluid Sales Market Share by Region (2020-2025)
- Figure 39. Global Synthetic Metalworking Fluid Market Size by Region (2020-2025)
- Figure 40. North America Synthetic Metalworking Fluid Sales and Growth Rate (2020-2025) & (K MT)
- Figure 41. North America Synthetic Metalworking Fluid Sales and Growth Rate (2020-2025) & (K MT)
- Figure 42. North America Synthetic Metalworking Fluid Sales Market Share by Country in 2024
- Figure 43. North America Synthetic Metalworking Fluid Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America Synthetic Metalworking Fluid Market Size by Country in 2024
- Figure 45. U.S. Synthetic Metalworking Fluid Sales and Growth Rate (2020-2025) & (K MT)
- Figure 46. U.S. Synthetic Metalworking Fluid Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada Synthetic Metalworking Fluid Sales (K MT) and Growth Rate (2020-2025)
- Figure 48. Canada Synthetic Metalworking Fluid Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico Synthetic Metalworking Fluid Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico Synthetic Metalworking Fluid Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe Synthetic Metalworking Fluid Sales and Growth Rate (2020-2025) & (K MT)
- Figure 52. Europe Synthetic Metalworking Fluid Sales Market Share by Country in 2024
- Figure 53. Europe Synthetic Metalworking Fluid Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Synthetic Metalworking Fluid Market Size by Country in 2024

Figure 55. Germany Synthetic Metalworking Fluid Sales and Growth Rate (2020-2025) & (K MT)

Figure 56. Germany Synthetic Metalworking Fluid Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Synthetic Metalworking Fluid Sales and Growth Rate (2020-2025) & (K MT)

Figure 58. France Synthetic Metalworking Fluid Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Synthetic Metalworking Fluid Sales and Growth Rate (2020-2025) & (K MT)

Figure 60. U.K. Synthetic Metalworking Fluid Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Synthetic Metalworking Fluid Sales and Growth Rate (2020-2025) & (K MT)

Figure 62. Italy Synthetic Metalworking Fluid Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Synthetic Metalworking Fluid Sales and Growth Rate (2020-2025) & (K MT)

Figure 64. Spain Synthetic Metalworking Fluid Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Synthetic Metalworking Fluid Sales and Growth Rate (K MT)

Figure 66. Asia Pacific Synthetic Metalworking Fluid Sales Market Share by Region in 2024

Figure 67. Asia Pacific Synthetic Metalworking Fluid Market Size by Region in 2024

Figure 68. China Synthetic Metalworking Fluid Sales and Growth Rate (2020-2025) & (K MT)

Figure 69. China Synthetic Metalworking Fluid Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Synthetic Metalworking Fluid Sales and Growth Rate (2020-2025) & (K MT)

Figure 71. Japan Synthetic Metalworking Fluid Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Synthetic Metalworking Fluid Sales and Growth Rate (2020-2025) & (K MT)

Figure 73. South Korea Synthetic Metalworking Fluid Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Synthetic Metalworking Fluid Sales and Growth Rate (2020-2025) & (K MT)

Figure 75. India Synthetic Metalworking Fluid Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Synthetic Metalworking Fluid Sales and Growth Rate (2020-2025) & (K MT)

Figure 77. Southeast Asia Synthetic Metalworking Fluid Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Synthetic Metalworking Fluid Sales and Growth Rate (K MT)

Figure 79. South America Synthetic Metalworking Fluid Sales Market Share by Country in 2024

Figure 80. South America Synthetic Metalworking Fluid Market Size and Growth Rate (M USD)

Figure 81. South America Synthetic Metalworking Fluid Market Size by Country in 2024

Figure 82. Brazil Synthetic Metalworking Fluid Sales and Growth Rate (2020-2025) & (K MT)

Figure 83. Brazil Synthetic Metalworking Fluid Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Synthetic Metalworking Fluid Sales and Growth Rate (2020-2025) & (K MT)

Figure 85. Argentina Synthetic Metalworking Fluid Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Synthetic Metalworking Fluid Sales and Growth Rate (2020-2025) & (K MT)

Figure 87. Columbia Synthetic Metalworking Fluid Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Synthetic Metalworking Fluid Sales and Growth Rate (K MT)

Figure 89. Middle East and Africa Synthetic Metalworking Fluid Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Synthetic Metalworking Fluid Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Synthetic Metalworking Fluid Market Size by Region in 2024

Figure 92. Saudi Arabia Synthetic Metalworking Fluid Sales and Growth Rate (2020-2025) & (K MT)

Figure 93. Saudi Arabia Synthetic Metalworking Fluid Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Synthetic Metalworking Fluid Sales and Growth Rate (2020-2025) & (K MT)

Figure 95. UAE Synthetic Metalworking Fluid Market Size and Growth Rate (2020-2025)

& (M USD)

Figure 96. Egypt Synthetic Metalworking Fluid Sales and Growth Rate (2020-2025) & (K MT)

Figure 97. Egypt Synthetic Metalworking Fluid Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Synthetic Metalworking Fluid Sales and Growth Rate (2020-2025) & (K MT)

Figure 99. Nigeria Synthetic Metalworking Fluid Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Synthetic Metalworking Fluid Sales and Growth Rate (2020-2025) & (K MT)

Figure 101. South Africa Synthetic Metalworking Fluid Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Synthetic Metalworking Fluid Production Market Share by Region (2020-2025)

Figure 103. North America Synthetic Metalworking Fluid Production (K MT) Growth Rate (2020-2025)

Figure 104. Europe Synthetic Metalworking Fluid Production (K MT) Growth Rate (2020-2025)

Figure 105. Japan Synthetic Metalworking Fluid Production (K MT) Growth Rate (2020-2025)

Figure 106. China Synthetic Metalworking Fluid Production (K MT) Growth Rate (2020-2025)

Figure 107. Global Synthetic Metalworking Fluid Sales Forecast by Volume (2020-2035) & (K MT)

Figure 108. Global Synthetic Metalworking Fluid Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Synthetic Metalworking Fluid Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Synthetic Metalworking Fluid Market Share Forecast by Type (2026-2035)

Figure 111. Global Synthetic Metalworking Fluid Sales Forecast by Application (2026-2035)

Figure 112. Global Synthetic Metalworking Fluid Market Share Forecast by Application (2026-2035)

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