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Global Water-based Metalworking Oil Market Growth 2026-2032

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Abstracts

The global Water-based Metalworking Oil market size is predicted to grow from US$ 5047 million in 2025 to US$ 6610 million in 2032; it is expected to grow at a CAGR of 4.0% from 2026 to 2032.

Water-based Metalworking Oil—also known as emulsifiable metalworking oil—is a type of coolant-lubricant concentrate that is diluted with water for use in machining operations. It provides both cooling (from the water) and lubrication (from the oil), making it ideal for reducing friction and heat in metal cutting, drilling, milling, grinding, and other processes.

1. Multifunctionality

The application scope of metalworking fluids covers a variety of processing methods such as rolling, drawing, extrusion, forging and cutting. Its wide application field and complex use environment characteristics determine that metalworking fluids must have multifunctional characteristics. At present, metalworking processes have put forward more urgent demands for metalworking fluids with wider adaptability. For example, in cutting processing, a cutting fluid that can be used for boring, drilling, cutting and other processing processes is needed; when hot rolling high-speed rails, it is hoped that the rolling oil can have comprehensive properties such as rolling, lubrication, corrosion inhibition and rust prevention; in the heat treatment process of metal parts, the heat treatment medium is required to have adaptability to different materials, different quenching temperatures and times.

2. Green and environmental protection

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Due to the large amount of metalworking (oil) fluids used and their wide dispersion, coupled with insufficient awareness of their harmfulness, most metalworking fluids were directly discharged in the past. In addition, the difficult-to-biodegrade surfactants and harmful sulfur, phosphorus, chlorine and other complexes and inorganic salts contained in metalworking fluids will also cause irreversible damage to the environment. With the increasing global attention to environmental protection, the development of metalworking fluids tends to be more environmentally friendly. Including reducing the use of volatile organic compounds and harmful chemicals, using biodegradable ingredients, and more effective waste liquid treatment methods. At present, China's requirements for biodegradability, ecotoxicity, waste emissions and other indicators of metalworking (oil) fluids are becoming increasingly stringent. Therefore, it is imperative to develop green and environmentally friendly metalworking (oil) fluids.

3. Water-based processing fluids

Metalworking fluids can be divided into two categories: oil-based and water-based according to their composition. Oil-based metalworking lubricants, although they have good lubricity and rust prevention, are easy to volatilize at high temperatures to produce a large amount of oil mist, which not only pollutes the environment, but also harms human health; water-based metalworking lubricants have excellent cooling performance, are not easy to ignite, are safe and reliable, and have abundant water sources, are non-toxic and odorless, are environmentally friendly, and are easily biodegradable. With the enhancement of people's awareness of environmental protection, the call for clean production in the metalworking process is getting louder and louder, and the application of water-based metalworking lubricants will increase.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Water-based Metalworking Oil Industry Forecast” looks at past sales and reviews total world Water-based Metalworking Oil sales in 2025, providing a comprehensive analysis by region and market sector of projected Water-based Metalworking Oil sales for 2026 through 2032. With Water-based Metalworking Oil sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Water-based Metalworking Oil industry.

This Insight Report provides a comprehensive analysis of the global Water-based Metalworking Oil landscape and highlights key trends related to product segmentation,

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company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Water-based Metalworking Oil portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Water-based Metalworking Oil market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Water-based Metalworking Oil and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Water-based Metalworking Oil.

This report presents a comprehensive overview, market shares, and growth opportunities of Water-based Metalworking Oil market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Metal Cutting Fluids

Metal Forming Fluids

Metal Protecting Fluids

Metal Treating Fluids

Segmentation by Application:

Machinery

Automotive

Others

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This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia
- Europe
  - Germany
  - France
  - UK
  - Italy
  - Russia

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Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Quaker Houghton

Fuchs

Exxon Mobil

BP Castrol

Henkel

Yushiro Chemical

Idemitsu Kosan

Blaser Swisslube

TotalEnergies

Tectylasia

Cimcool Industrial Products

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Petrofer

Master Fluid Solutions

LUKOIL

SINOPEC

Chervon

ENEOS

Talent

Chemetall

Cosmo Oil Lubricants

Ashburn Chemical Technologies

Key Questions Addressed in this Report

What is the 10-year outlook for the global Water-based Metalworking Oil market?

What factors are driving Water-based Metalworking Oil market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Water-based Metalworking Oil market opportunities vary by end market size?

How does Water-based Metalworking Oil break out by Type, by Application?

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Contents

1 SCOPE OF THE REPORT

1.1 Market Introduction
1.2 Years Considered
1.3 Research Objectives
1.4 Market Research Methodology
1.5 Research Process and Data Source
1.6 Economic Indicators
1.7 Currency Considered
1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview
  2.1.1 Global Water-based Metalworking Oil Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for Water-based Metalworking Oil by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for Water-based Metalworking Oil by Country/Region, 2021, 2025 & 2032
2.2 Water-based Metalworking Oil Segment by Type
  2.2.1 Metal Cutting Fluids
  2.2.2 Metal Forming Fluids
  2.2.3 Metal Protecting Fluids
  2.2.4 Metal Treating Fluids
  2.2.5 Water-based Metalworking Oil Sales by Type
    2.2.5.1 Global Water-based Metalworking Oil Sales Market Share by Type (2021-2026)
    2.2.5.2 Global Water-based Metalworking Oil Revenue and Market Share by Type (2021-2026)
    2.2.5.3 Global Water-based Metalworking Oil Sale Price by Type (2021-2026)
2.3 Water-based Metalworking Oil Segment by Application
  2.3.1 Machinery
  2.3.2 Automotive
  2.3.3 Others
  2.3.4 Water-based Metalworking Oil Sales by Application
    2.3.4.1 Global Water-based Metalworking Oil Sale Market Share by Application (2021-2026)

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2.3.4.2 Global Water-based Metalworking Oil Revenue and Market Share by Application (2021-2026)
2.3.4.3 Global Water-based Metalworking Oil Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Water-based Metalworking Oil Breakdown Data by Company
3.1.1 Global Water-based Metalworking Oil Annual Sales by Company (2021-2026)
3.1.2 Global Water-based Metalworking Oil Sales Market Share by Company (2021-2026)
3.2 Global Water-based Metalworking Oil Annual Revenue by Company (2021-2026)
3.2.1 Global Water-based Metalworking Oil Revenue by Company (2021-2026)
3.2.2 Global Water-based Metalworking Oil Revenue Market Share by Company (2021-2026)
3.3 Global Water-based Metalworking Oil Sale Price by Company
3.4 Key Manufacturers Water-based Metalworking Oil Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Water-based Metalworking Oil Product Location Distribution
3.4.2 Players Water-based Metalworking Oil Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR WATER-BASED METALWORKING OIL BY GEOGRAPHIC REGION

4.1 World Historic Water-based Metalworking Oil Market Size by Geographic Region (2021-2026)
4.1.1 Global Water-based Metalworking Oil Annual Sales by Geographic Region (2021-2026)
4.1.2 Global Water-based Metalworking Oil Annual Revenue by Geographic Region (2021-2026)
4.2 World Historic Water-based Metalworking Oil Market Size by Country/Region (2021-2026)
4.2.1 Global Water-based Metalworking Oil Annual Sales by Country/Region (2021-2026)
4.2.2 Global Water-based Metalworking Oil Annual Revenue by Country/Region

+357 96 030922
info@marketpublishers.com

(2021-2026)
4.3 Americas Water-based Metalworking Oil Sales Growth
4.4 APAC Water-based Metalworking Oil Sales Growth
4.5 Europe Water-based Metalworking Oil Sales Growth
4.6 Middle East & Africa Water-based Metalworking Oil Sales Growth

5 AMERICAS

5.1 Americas Water-based Metalworking Oil Sales by Country
  5.1.1 Americas Water-based Metalworking Oil Sales by Country (2021-2026)
  5.1.2 Americas Water-based Metalworking Oil Revenue by Country (2021-2026)
5.2 Americas Water-based Metalworking Oil Sales by Type (2021-2026)
5.3 Americas Water-based Metalworking Oil Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Water-based Metalworking Oil Sales by Region
  6.1.1 APAC Water-based Metalworking Oil Sales by Region (2021-2026)
  6.1.2 APAC Water-based Metalworking Oil Revenue by Region (2021-2026)
6.2 APAC Water-based Metalworking Oil Sales by Type (2021-2026)
6.3 APAC Water-based Metalworking Oil Sales by Application (2021-2026)
6.4 China
6.5 Japan
6.6 South Korea
6.7 Southeast Asia
6.8 India
6.9 Australia
6.10 China Taiwan

7 EUROPE

7.1 Europe Water-based Metalworking Oil by Country
  7.1.1 Europe Water-based Metalworking Oil Sales by Country (2021-2026)
  7.1.2 Europe Water-based Metalworking Oil Revenue by Country (2021-2026)
7.2 Europe Water-based Metalworking Oil Sales by Type (2021-2026)

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7.3 Europe Water-based Metalworking Oil Sales by Application (2021-2026)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Water-based Metalworking Oil by Country
8.1.1 Middle East & Africa Water-based Metalworking Oil Sales by Country (2021-2026)
8.1.2 Middle East & Africa Water-based Metalworking Oil Revenue by Country (2021-2026)
8.2 Middle East & Africa Water-based Metalworking Oil Sales by Type (2021-2026)
8.3 Middle East & Africa Water-based Metalworking Oil Sales by Application (2021-2026)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities
9.2 Market Challenges & Risks
9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers
10.2 Manufacturing Cost Structure Analysis of Water-based Metalworking Oil
10.3 Manufacturing Process Analysis of Water-based Metalworking Oil
10.4 Industry Chain Structure of Water-based Metalworking Oil

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

+357 96 030922
info@marketpublishers.com

11.1.1 Direct Channels
11.1.2 Indirect Channels
11.2 Water-based Metalworking Oil Distributors
11.3 Water-based Metalworking Oil Customer

12 WORLD FORECAST REVIEW FOR WATER-BASED METALWORKING OIL BY GEOGRAPHIC REGION

12.1 Global Water-based Metalworking Oil Market Size Forecast by Region
12.1.1 Global Water-based Metalworking Oil Forecast by Region (2027-2032)
12.1.2 Global Water-based Metalworking Oil Annual Revenue Forecast by Region (2027-2032)
12.2 Americas Forecast by Country (2027-2032)
12.3 APAC Forecast by Region (2027-2032)
12.4 Europe Forecast by Country (2027-2032)
12.5 Middle East & Africa Forecast by Country (2027-2032)
12.6 Global Water-based Metalworking Oil Forecast by Type (2027-2032)
12.7 Global Water-based Metalworking Oil Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Quaker Houghton
13.1.1 Quaker Houghton Company Information
13.1.2 Quaker Houghton Water-based Metalworking Oil Product Portfolios and Specifications
13.1.3 Quaker Houghton Water-based Metalworking Oil Sales, Revenue, Price and Gross Margin (2021-2026)
13.1.4 Quaker Houghton Main Business Overview
13.1.5 Quaker Houghton Latest Developments
13.2 Fuchs
13.2.1 Fuchs Company Information
13.2.2 Fuchs Water-based Metalworking Oil Product Portfolios and Specifications
13.2.3 Fuchs Water-based Metalworking Oil Sales, Revenue, Price and Gross Margin (2021-2026)
13.2.4 Fuchs Main Business Overview
13.2.5 Fuchs Latest Developments
13.3 Exxon Mobil
13.3.1 Exxon Mobil Company Information
13.3.2 Exxon Mobil Water-based Metalworking Oil Product Portfolios and

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Specifications
13.3.3 Exxon Mobil Water-based Metalworking Oil Sales, Revenue, Price and Gross Margin (2021-2026)
13.3.4 Exxon Mobil Main Business Overview
13.3.5 Exxon Mobil Latest Developments
13.4 BP Castrol
13.4.1 BP Castrol Company Information
13.4.2 BP Castrol Water-based Metalworking Oil Product Portfolios and Specifications
13.4.3 BP Castrol Water-based Metalworking Oil Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 BP Castrol Main Business Overview
13.4.5 BP Castrol Latest Developments
13.5 Henkel
13.5.1 Henkel Company Information
13.5.2 Henkel Water-based Metalworking Oil Product Portfolios and Specifications
13.5.3 Henkel Water-based Metalworking Oil Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 Henkel Main Business Overview
13.5.5 Henkel Latest Developments
13.6 Yushiro Chemical
13.6.1 Yushiro Chemical Company Information
13.6.2 Yushiro Chemical Water-based Metalworking Oil Product Portfolios and Specifications
13.6.3 Yushiro Chemical Water-based Metalworking Oil Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 Yushiro Chemical Main Business Overview
13.6.5 Yushiro Chemical Latest Developments
13.7 Idemitsu Kosan
13.7.1 Idemitsu Kosan Company Information
13.7.2 Idemitsu Kosan Water-based Metalworking Oil Product Portfolios and Specifications
13.7.3 Idemitsu Kosan Water-based Metalworking Oil Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 Idemitsu Kosan Main Business Overview
13.7.5 Idemitsu Kosan Latest Developments
13.8 Blaser Swisslube
13.8.1 Blaser Swisslube Company Information
13.8.2 Blaser Swisslube Water-based Metalworking Oil Product Portfolios and Specifications

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info@marketpublishers.com

13.8.3 Blaser Swisslube Water-based Metalworking Oil Sales, Revenue, Price and Gross Margin (2021-2026)
13.8.4 Blaser Swisslube Main Business Overview
13.8.5 Blaser Swisslube Latest Developments
13.9 TotalEnergies
13.9.1 TotalEnergies Company Information
13.9.2 TotalEnergies Water-based Metalworking Oil Product Portfolios and Specifications
13.9.3 TotalEnergies Water-based Metalworking Oil Sales, Revenue, Price and Gross Margin (2021-2026)
13.9.4 TotalEnergies Main Business Overview
13.9.5 TotalEnergies Latest Developments
13.10 Tectylasia
13.10.1 Tectylasia Company Information
13.10.2 Tectylasia Water-based Metalworking Oil Product Portfolios and Specifications
13.10.3 Tectylasia Water-based Metalworking Oil Sales, Revenue, Price and Gross Margin (2021-2026)
13.10.4 Tectylasia Main Business Overview
13.10.5 Tectylasia Latest Developments
13.11 Cimcool Industrial Products
13.11.1 Cimcool Industrial Products Company Information
13.11.2 Cimcool Industrial Products Water-based Metalworking Oil Product Portfolios and Specifications
13.11.3 Cimcool Industrial Products Water-based Metalworking Oil Sales, Revenue, Price and Gross Margin (2021-2026)
13.11.4 Cimcool Industrial Products Main Business Overview
13.11.5 Cimcool Industrial Products Latest Developments
13.12 Petrofer
13.12.1 Petrofer Company Information
13.12.2 Petrofer Water-based Metalworking Oil Product Portfolios and Specifications
13.12.3 Petrofer Water-based Metalworking Oil Sales, Revenue, Price and Gross Margin (2021-2026)
13.12.4 Petrofer Main Business Overview
13.12.5 Petrofer Latest Developments
13.13 Master Fluid Solutions
13.13.1 Master Fluid Solutions Company Information
13.13.2 Master Fluid Solutions Water-based Metalworking Oil Product Portfolios and Specifications
13.13.3 Master Fluid Solutions Water-based Metalworking Oil Sales, Revenue, Price

+357 96 030922
info@marketpublishers.com

and Gross Margin (2021-2026)
13.13.4 Master Fluid Solutions Main Business Overview
13.13.5 Master Fluid Solutions Latest Developments
13.14 LUKOIL
13.14.1 LUKOIL Company Information
13.14.2 LUKOIL Water-based Metalworking Oil Product Portfolios and Specifications
13.14.3 LUKOIL Water-based Metalworking Oil Sales, Revenue, Price and Gross Margin (2021-2026)
13.14.4 LUKOIL Main Business Overview
13.14.5 LUKOIL Latest Developments
13.15 SINOPEC
13.15.1 SINOPEC Company Information
13.15.2 SINOPEC Water-based Metalworking Oil Product Portfolios and Specifications
13.15.3 SINOPEC Water-based Metalworking Oil Sales, Revenue, Price and Gross Margin (2021-2026)
13.15.4 SINOPEC Main Business Overview
13.15.5 SINOPEC Latest Developments
13.16 Chervon
13.16.1 Chervon Company Information
13.16.2 Chervon Water-based Metalworking Oil Product Portfolios and Specifications
13.16.3 Chervon Water-based Metalworking Oil Sales, Revenue, Price and Gross Margin (2021-2026)
13.16.4 Chervon Main Business Overview
13.16.5 Chervon Latest Developments
13.17 ENEOS
13.17.1 ENEOS Company Information
13.17.2 ENEOS Water-based Metalworking Oil Product Portfolios and Specifications
13.17.3 ENEOS Water-based Metalworking Oil Sales, Revenue, Price and Gross Margin (2021-2026)
13.17.4 ENEOS Main Business Overview
13.17.5 ENEOS Latest Developments
13.18 Talent
13.18.1 Talent Company Information
13.18.2 Talent Water-based Metalworking Oil Product Portfolios and Specifications
13.18.3 Talent Water-based Metalworking Oil Sales, Revenue, Price and Gross Margin (2021-2026)
13.18.4 Talent Main Business Overview
13.18.5 Talent Latest Developments
13.19 Chemetall

+357 96 030922
info@marketpublishers.com

13.19.1 Chemetall Company Information
13.19.2 Chemetall Water-based Metalworking Oil Product Portfolios and Specifications
13.19.3 Chemetall Water-based Metalworking Oil Sales, Revenue, Price and Gross Margin (2021-2026)
13.19.4 Chemetall Main Business Overview
13.19.5 Chemetall Latest Developments
13.20 Cosmo Oil Lubricants
13.20.1 Cosmo Oil Lubricants Company Information
13.20.2 Cosmo Oil Lubricants Water-based Metalworking Oil Product Portfolios and Specifications
13.20.3 Cosmo Oil Lubricants Water-based Metalworking Oil Sales, Revenue, Price and Gross Margin (2021-2026)
13.20.4 Cosmo Oil Lubricants Main Business Overview
13.20.5 Cosmo Oil Lubricants Latest Developments
13.21 Ashburn Chemical Technologies
13.21.1 Ashburn Chemical Technologies Company Information
13.21.2 Ashburn Chemical Technologies Water-based Metalworking Oil Product Portfolios and Specifications
13.21.3 Ashburn Chemical Technologies Water-based Metalworking Oil Sales, Revenue, Price and Gross Margin (2021-2026)
13.21.4 Ashburn Chemical Technologies Main Business Overview
13.21.5 Ashburn Chemical Technologies Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Water-based Metalworking Oil Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. Water-based Metalworking Oil Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Metal Cutting Fluids
Table 4. Major Players of Metal Forming Fluids
Table 5. Major Players of Metal Protecting Fluids
Table 6. Major Players of Metal Treating Fluids
Table 7. Global Water-based Metalworking Oil Sales by Type (2021-2026) & (K Tons)
Table 8. Global Water-based Metalworking Oil Sales Market Share by Type (2021-2026)
Table 9. Global Water-based Metalworking Oil Revenue by Type (2021-2026) & ($ million)
Table 10. Global Water-based Metalworking Oil Revenue Market Share by Type (2021-2026)
Table 11. Global Water-based Metalworking Oil Sale Price by Type (2021-2026) & (US$/Ton)
Table 12. Global Water-based Metalworking Oil Sale by Application (2021-2026) & (K Tons)
Table 13. Global Water-based Metalworking Oil Sale Market Share by Application (2021-2026)
Table 14. Global Water-based Metalworking Oil Revenue by Application (2021-2026) & ($ million)
Table 15. Global Water-based Metalworking Oil Revenue Market Share by Application (2021-2026)
Table 16. Global Water-based Metalworking Oil Sale Price by Application (2021-2026) & (US$/Ton)
Table 17. Global Water-based Metalworking Oil Sales by Company (2021-2026) & (K Tons)
Table 18. Global Water-based Metalworking Oil Sales Market Share by Company (2021-2026)
Table 19. Global Water-based Metalworking Oil Revenue by Company (2021-2026) & ($ millions)
Table 20. Global Water-based Metalworking Oil Revenue Market Share by Company (2021-2026)

+357 96 030922
info@marketpublishers.com

Table 21. Global Water-based Metalworking Oil Sale Price by Company (2021-2026) & (US$/Ton)
Table 22. Key Manufacturers Water-based Metalworking Oil Producing Area Distribution and Sales Area
Table 23. Players Water-based Metalworking Oil Products Offered
Table 24. Water-based Metalworking Oil Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 25. New Products and Potential Entrants
Table 26. Market M&A Activity & Strategy
Table 27. Global Water-based Metalworking Oil Sales by Geographic Region (2021-2026) & (K Tons)
Table 28. Global Water-based Metalworking Oil Sales Market Share Geographic Region (2021-2026)
Table 29. Global Water-based Metalworking Oil Revenue by Geographic Region (2021-2026) & ($ millions)
Table 30. Global Water-based Metalworking Oil Revenue Market Share by Geographic Region (2021-2026)
Table 31. Global Water-based Metalworking Oil Sales by Country/Region (2021-2026) & (K Tons)
Table 32. Global Water-based Metalworking Oil Sales Market Share by Country/Region (2021-2026)
Table 33. Global Water-based Metalworking Oil Revenue by Country/Region (2021-2026) & ($ millions)
Table 34. Global Water-based Metalworking Oil Revenue Market Share by Country/Region (2021-2026)
Table 35. Americas Water-based Metalworking Oil Sales by Country (2021-2026) & (K Tons)
Table 36. Americas Water-based Metalworking Oil Sales Market Share by Country (2021-2026)
Table 37. Americas Water-based Metalworking Oil Revenue by Country (2021-2026) & ($ millions)
Table 38. Americas Water-based Metalworking Oil Sales by Type (2021-2026) & (K Tons)
Table 39. Americas Water-based Metalworking Oil Sales by Application (2021-2026) & (K Tons)
Table 40. APAC Water-based Metalworking Oil Sales by Region (2021-2026) & (K Tons)
Table 41. APAC Water-based Metalworking Oil Sales Market Share by Region (2021-2026)

+357 96 030922
info@marketpublishers.com

Table 42. APAC Water-based Metalworking Oil Revenue by Region (2021-2026) & ($ millions)
Table 43. APAC Water-based Metalworking Oil Sales by Type (2021-2026) & (K Tons)
Table 44. APAC Water-based Metalworking Oil Sales by Application (2021-2026) & (K Tons)
Table 45. Europe Water-based Metalworking Oil Sales by Country (2021-2026) & (K Tons)
Table 46. Europe Water-based Metalworking Oil Revenue by Country (2021-2026) & ($ millions)
Table 47. Europe Water-based Metalworking Oil Sales by Type (2021-2026) & (K Tons)
Table 48. Europe Water-based Metalworking Oil Sales by Application (2021-2026) & (K Tons)
Table 49. Middle East & Africa Water-based Metalworking Oil Sales by Country (2021-2026) & (K Tons)
Table 50. Middle East & Africa Water-based Metalworking Oil Revenue Market Share by Country (2021-2026)
Table 51. Middle East & Africa Water-based Metalworking Oil Sales by Type (2021-2026) & (K Tons)
Table 52. Middle East & Africa Water-based Metalworking Oil Sales by Application (2021-2026) & (K Tons)
Table 53. Key Market Drivers & Growth Opportunities of Water-based Metalworking Oil
Table 54. Key Market Challenges & Risks of Water-based Metalworking Oil
Table 55. Key Industry Trends of Water-based Metalworking Oil
Table 56. Water-based Metalworking Oil Raw Material
Table 57. Key Suppliers of Raw Materials
Table 58. Water-based Metalworking Oil Distributors List
Table 59. Water-based Metalworking Oil Customer List
Table 60. Global Water-based Metalworking Oil Sales Forecast by Region (2027-2032) & (K Tons)
Table 61. Global Water-based Metalworking Oil Revenue Forecast by Region (2027-2032) & ($ millions)
Table 62. Americas Water-based Metalworking Oil Sales Forecast by Country (2027-2032) & (K Tons)
Table 63. Americas Water-based Metalworking Oil Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 64. APAC Water-based Metalworking Oil Sales Forecast by Region (2027-2032) & (K Tons)
Table 65. APAC Water-based Metalworking Oil Annual Revenue Forecast by Region (2027-2032) & ($ millions)

+357 96 030922
info@marketpublishers.com

Table 66. Europe Water-based Metalworking Oil Sales Forecast by Country (2027-2032) & (K Tons)
Table 67. Europe Water-based Metalworking Oil Revenue Forecast by Country (2027-2032) & ($ millions)
Table 68. Middle East & Africa Water-based Metalworking Oil Sales Forecast by Country (2027-2032) & (K Tons)
Table 69. Middle East & Africa Water-based Metalworking Oil Revenue Forecast by Country (2027-2032) & ($ millions)
Table 70. Global Water-based Metalworking Oil Sales Forecast by Type (2027-2032) & (K Tons)
Table 71. Global Water-based Metalworking Oil Revenue Forecast by Type (2027-2032) & ($ millions)
Table 72. Global Water-based Metalworking Oil Sales Forecast by Application (2027-2032) & (K Tons)
Table 73. Global Water-based Metalworking Oil Revenue Forecast by Application (2027-2032) & ($ millions)
Table 74. Quaker Houghton Basic Information, Water-based Metalworking Oil Manufacturing Base, Sales Area and Its Competitors
Table 75. Quaker Houghton Water-based Metalworking Oil Product Portfolios and Specifications
Table 76. Quaker Houghton Water-based Metalworking Oil Sales (K Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 77. Quaker Houghton Main Business
Table 78. Quaker Houghton Latest Developments
Table 79. Fuchs Basic Information, Water-based Metalworking Oil Manufacturing Base, Sales Area and Its Competitors
Table 80. Fuchs Water-based Metalworking Oil Product Portfolios and Specifications
Table 81. Fuchs Water-based Metalworking Oil Sales (K Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 82. Fuchs Main Business
Table 83. Fuchs Latest Developments
Table 84. Exxon Mobil Basic Information, Water-based Metalworking Oil Manufacturing Base, Sales Area and Its Competitors
Table 85. Exxon Mobil Water-based Metalworking Oil Product Portfolios and Specifications
Table 86. Exxon Mobil Water-based Metalworking Oil Sales (K Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 87. Exxon Mobil Main Business
Table 88. Exxon Mobil Latest Developments

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Table 89. BP Castrol Basic Information, Water-based Metalworking Oil Manufacturing Base, Sales Area and Its Competitors
Table 90. BP Castrol Water-based Metalworking Oil Product Portfolios and Specifications
Table 91. BP Castrol Water-based Metalworking Oil Sales (K Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 92. BP Castrol Main Business
Table 93. BP Castrol Latest Developments
Table 94. Henkel Basic Information, Water-based Metalworking Oil Manufacturing Base, Sales Area and Its Competitors
Table 95. Henkel Water-based Metalworking Oil Product Portfolios and Specifications
Table 96. Henkel Water-based Metalworking Oil Sales (K Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 97. Henkel Main Business
Table 98. Henkel Latest Developments
Table 99. Yushiro Chemical Basic Information, Water-based Metalworking Oil Manufacturing Base, Sales Area and Its Competitors
Table 100. Yushiro Chemical Water-based Metalworking Oil Product Portfolios and Specifications
Table 101. Yushiro Chemical Water-based Metalworking Oil Sales (K Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 102. Yushiro Chemical Main Business
Table 103. Yushiro Chemical Latest Developments
Table 104. Idemitsu Kosan Basic Information, Water-based Metalworking Oil Manufacturing Base, Sales Area and Its Competitors
Table 105. Idemitsu Kosan Water-based Metalworking Oil Product Portfolios and Specifications
Table 106. Idemitsu Kosan Water-based Metalworking Oil Sales (K Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 107. Idemitsu Kosan Main Business
Table 108. Idemitsu Kosan Latest Developments
Table 109. Blaser Swisslube Basic Information, Water-based Metalworking Oil Manufacturing Base, Sales Area and Its Competitors
Table 110. Blaser Swisslube Water-based Metalworking Oil Product Portfolios and Specifications
Table 111. Blaser Swisslube Water-based Metalworking Oil Sales (K Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 112. Blaser Swisslube Main Business
Table 113. Blaser Swisslube Latest Developments

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Table 114. TotalEnergies Basic Information, Water-based Metalworking Oil Manufacturing Base, Sales Area and Its Competitors
Table 115. TotalEnergies Water-based Metalworking Oil Product Portfolios and Specifications
Table 116. TotalEnergies Water-based Metalworking Oil Sales (K Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 117. TotalEnergies Main Business
Table 118. TotalEnergies Latest Developments
Table 119. Tectylasia Basic Information, Water-based Metalworking Oil Manufacturing Base, Sales Area and Its Competitors
Table 120. Tectylasia Water-based Metalworking Oil Product Portfolios and Specifications
Table 121. Tectylasia Water-based Metalworking Oil Sales (K Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 122. Tectylasia Main Business
Table 123. Tectylasia Latest Developments
Table 124. Cimcool Industrial Products Basic Information, Water-based Metalworking Oil Manufacturing Base, Sales Area and Its Competitors
Table 125. Cimcool Industrial Products Water-based Metalworking Oil Product Portfolios and Specifications
Table 126. Cimcool Industrial Products Water-based Metalworking Oil Sales (K Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 127. Cimcool Industrial Products Main Business
Table 128. Cimcool Industrial Products Latest Developments
Table 129. Petrofer Basic Information, Water-based Metalworking Oil Manufacturing Base, Sales Area and Its Competitors
Table 130. Petrofer Water-based Metalworking Oil Product Portfolios and Specifications
Table 131. Petrofer Water-based Metalworking Oil Sales (K Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 132. Petrofer Main Business
Table 133. Petrofer Latest Developments
Table 134. Master Fluid Solutions Basic Information, Water-based Metalworking Oil Manufacturing Base, Sales Area and Its Competitors
Table 135. Master Fluid Solutions Water-based Metalworking Oil Product Portfolios and Specifications
Table 136. Master Fluid Solutions Water-based Metalworking Oil Sales (K Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 137. Master Fluid Solutions Main Business
Table 138. Master Fluid Solutions Latest Developments

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Table 139. LUKOIL Basic Information, Water-based Metalworking Oil Manufacturing Base, Sales Area and Its Competitors
Table 140. LUKOIL Water-based Metalworking Oil Product Portfolios and Specifications
Table 141. LUKOIL Water-based Metalworking Oil Sales (K Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 142. LUKOIL Main Business
Table 143. LUKOIL Latest Developments
Table 144. SINOPEC Basic Information, Water-based Metalworking Oil Manufacturing Base, Sales Area and Its Competitors
Table 145. SINOPEC Water-based Metalworking Oil Product Portfolios and Specifications
Table 146. SINOPEC Water-based Metalworking Oil Sales (K Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 147. SINOPEC Main Business
Table 148. SINOPEC Latest Developments
Table 149. Chervon Basic Information, Water-based Metalworking Oil Manufacturing Base, Sales Area and Its Competitors
Table 150. Chervon Water-based Metalworking Oil Product Portfolios and Specifications
Table 151. Chervon Water-based Metalworking Oil Sales (K Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 152. Chervon Main Business
Table 153. Chervon Latest Developments
Table 154. ENEOS Basic Information, Water-based Metalworking Oil Manufacturing Base, Sales Area and Its Competitors
Table 155. ENEOS Water-based Metalworking Oil Product Portfolios and Specifications
Table 156. ENEOS Water-based Metalworking Oil Sales (K Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 157. ENEOS Main Business
Table 158. ENEOS Latest Developments
Table 159. Talent Basic Information, Water-based Metalworking Oil Manufacturing Base, Sales Area and Its Competitors
Table 160. Talent Water-based Metalworking Oil Product Portfolios and Specifications
Table 161. Talent Water-based Metalworking Oil Sales (K Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 162. Talent Main Business
Table 163. Talent Latest Developments
Table 164. Chemetall Basic Information, Water-based Metalworking Oil Manufacturing Base, Sales Area and Its Competitors

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Table 165. Chemetall Water-based Metalworking Oil Product Portfolios and Specifications
Table 166. Chemetall Water-based Metalworking Oil Sales (K Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 167. Chemetall Main Business
Table 168. Chemetall Latest Developments
Table 169. Cosmo Oil Lubricants Basic Information, Water-based Metalworking Oil Manufacturing Base, Sales Area and Its Competitors
Table 170. Cosmo Oil Lubricants Water-based Metalworking Oil Product Portfolios and Specifications
Table 171. Cosmo Oil Lubricants Water-based Metalworking Oil Sales (K Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 172. Cosmo Oil Lubricants Main Business
Table 173. Cosmo Oil Lubricants Latest Developments
Table 174. Ashburn Chemical Technologies Basic Information, Water-based Metalworking Oil Manufacturing Base, Sales Area and Its Competitors
Table 175. Ashburn Chemical Technologies Water-based Metalworking Oil Product Portfolios and Specifications
Table 176. Ashburn Chemical Technologies Water-based Metalworking Oil Sales (K Tons), Revenue ($ Million), Price (US$/Ton) and Gross Margin (2021-2026)
Table 177. Ashburn Chemical Technologies Main Business
Table 178. Ashburn Chemical Technologies Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Water-based Metalworking Oil
Figure 2. Water-based Metalworking Oil Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Water-based Metalworking Oil Sales Growth Rate 2021-2032 (K Tons)
Figure 7. Global Water-based Metalworking Oil Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. Water-based Metalworking Oil Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. Water-based Metalworking Oil Sales Market Share by Country/Region (2025)
Figure 10. Water-based Metalworking Oil Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of Metal Cutting Fluids
Figure 12. Product Picture of Metal Forming Fluids
Figure 13. Product Picture of Metal Protecting Fluids
Figure 14. Product Picture of Metal Treating Fluids
Figure 15. Global Water-based Metalworking Oil Sales Market Share by Type in 2026
Figure 16. Global Water-based Metalworking Oil Revenue Market Share by Type (2021-2026)
Figure 17. Water-based Metalworking Oil Consumed in Machinery
Figure 18. Global Water-based Metalworking Oil Market: Machinery (2021-2026) & (K Tons)
Figure 19. Water-based Metalworking Oil Consumed in Automotive
Figure 20. Global Water-based Metalworking Oil Market: Automotive (2021-2026) & (K Tons)
Figure 21. Water-based Metalworking Oil Consumed in Others
Figure 22. Global Water-based Metalworking Oil Market: Others (2021-2026) & (K Tons)
Figure 23. Global Water-based Metalworking Oil Sale Market Share by Application (2025)
Figure 24. Global Water-based Metalworking Oil Revenue Market Share by Application in 2026
Figure 25. Water-based Metalworking Oil Sales by Company in 2026 (K Tons)
Figure 26. Global Water-based Metalworking Oil Sales Market Share by Company in

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2026
Figure 27. Water-based Metalworking Oil Revenue by Company in 2026 ($ millions)
Figure 28. Global Water-based Metalworking Oil Revenue Market Share by Company in 2026
Figure 29. Global Water-based Metalworking Oil Sales Market Share by Geographic Region (2021-2026)
Figure 30. Global Water-based Metalworking Oil Revenue Market Share by Geographic Region in 2026
Figure 31. Americas Water-based Metalworking Oil Sales 2021-2026 (K Tons)
Figure 32. Americas Water-based Metalworking Oil Revenue 2021-2026 ($ millions)
Figure 33. APAC Water-based Metalworking Oil Sales 2021-2026 (K Tons)
Figure 34. APAC Water-based Metalworking Oil Revenue 2021-2026 ($ millions)
Figure 35. Europe Water-based Metalworking Oil Sales 2021-2026 (K Tons)
Figure 36. Europe Water-based Metalworking Oil Revenue 2021-2026 ($ millions)
Figure 37. Middle East & Africa Water-based Metalworking Oil Sales 2021-2026 (K Tons)
Figure 38. Middle East & Africa Water-based Metalworking Oil Revenue 2021-2026 ($ millions)
Figure 39. Americas Water-based Metalworking Oil Sales Market Share by Country in 2026
Figure 40. Americas Water-based Metalworking Oil Revenue Market Share by Country (2021-2026)
Figure 41. Americas Water-based Metalworking Oil Sales Market Share by Type (2021-2026)
Figure 42. Americas Water-based Metalworking Oil Sales Market Share by Application (2021-2026)
Figure 43. United States Water-based Metalworking Oil Revenue Growth 2021-2026 ($ millions)
Figure 44. Canada Water-based Metalworking Oil Revenue Growth 2021-2026 ($ millions)
Figure 45. Mexico Water-based Metalworking Oil Revenue Growth 2021-2026 ($ millions)
Figure 46. Brazil Water-based Metalworking Oil Revenue Growth 2021-2026 ($ millions)
Figure 47. APAC Water-based Metalworking Oil Sales Market Share by Region in 2026
Figure 48. APAC Water-based Metalworking Oil Revenue Market Share by Region (2021-2026)
Figure 49. APAC Water-based Metalworking Oil Sales Market Share by Type (2021-2026)
Figure 50. APAC Water-based Metalworking Oil Sales Market Share by Application

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(2021-2026)
Figure 51. China Water-based Metalworking Oil Revenue Growth 2021-2026 ($ millions)
Figure 52. Japan Water-based Metalworking Oil Revenue Growth 2021-2026 ($ millions)
Figure 53. South Korea Water-based Metalworking Oil Revenue Growth 2021-2026 ($ millions)
Figure 54. Southeast Asia Water-based Metalworking Oil Revenue Growth 2021-2026 ($ millions)
Figure 55. India Water-based Metalworking Oil Revenue Growth 2021-2026 ($ millions)
Figure 56. Australia Water-based Metalworking Oil Revenue Growth 2021-2026 ($ millions)
Figure 57. China Taiwan Water-based Metalworking Oil Revenue Growth 2021-2026 ($ millions)
Figure 58. Europe Water-based Metalworking Oil Sales Market Share by Country in 2026
Figure 59. Europe Water-based Metalworking Oil Revenue Market Share by Country (2021-2026)
Figure 60. Europe Water-based Metalworking Oil Sales Market Share by Type (2021-2026)
Figure 61. Europe Water-based Metalworking Oil Sales Market Share by Application (2021-2026)
Figure 62. Germany Water-based Metalworking Oil Revenue Growth 2021-2026 ($ millions)
Figure 63. France Water-based Metalworking Oil Revenue Growth 2021-2026 ($ millions)
Figure 64. UK Water-based Metalworking Oil Revenue Growth 2021-2026 ($ millions)
Figure 65. Italy Water-based Metalworking Oil Revenue Growth 2021-2026 ($ millions)
Figure 66. Russia Water-based Metalworking Oil Revenue Growth 2021-2026 ($ millions)
Figure 67. Middle East & Africa Water-based Metalworking Oil Sales Market Share by Country (2021-2026)
Figure 68. Middle East & Africa Water-based Metalworking Oil Sales Market Share by Type (2021-2026)
Figure 69. Middle East & Africa Water-based Metalworking Oil Sales Market Share by Application (2021-2026)
Figure 70. Egypt Water-based Metalworking Oil Revenue Growth 2021-2026 ($ millions)
Figure 71. South Africa Water-based Metalworking Oil Revenue Growth 2021-2026 ($ millions)

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Figure 72. Israel Water-based Metalworking Oil Revenue Growth 2021-2026 ($ millions)
Figure 73. Turkey Water-based Metalworking Oil Revenue Growth 2021-2026 ($ millions)
Figure 74. GCC Countries Water-based Metalworking Oil Revenue Growth 2021-2026 ($ millions)
Figure 75. Manufacturing Cost Structure Analysis of Water-based Metalworking Oil in 2026
Figure 76. Manufacturing Process Analysis of Water-based Metalworking Oil
Figure 77. Industry Chain Structure of Water-based Metalworking Oil
Figure 78. Channels of Distribution
Figure 79. Global Water-based Metalworking Oil Sales Market Forecast by Region (2027-2032)
Figure 80. Global Water-based Metalworking Oil Revenue Market Share Forecast by Region (2027-2032)
Figure 81. Global Water-based Metalworking Oil Sales Market Share Forecast by Type (2027-2032)
Figure 82. Global Water-based Metalworking Oil Revenue Market Share Forecast by Type (2027-2032)
Figure 83. Global Water-based Metalworking Oil Sales Market Share Forecast by Application (2027-2032)
Figure 84. Global Water-based Metalworking Oil Revenue Market Share Forecast by Application (2027-2032)

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