

# **Metalworking Fluids Market Report by Product Type (Removal Fluids, Forming Fluids, Protection Fluids, Treating Fluids), Source (Mineral, Synthetic, Bio-Based), End Use (Transportation Equipment, Machinery, Primary Metals, Fabricated Metal Products, Metal Cans, and Others), Fluid Type (Neat Cutting Oils, Water Cutting Oils, Corrosion Preventive Oils, and Others), Industry (Construction, Electrical and Power, Agriculture, Automobile, Aerospace, and Others), and Region 2024-2032**

<https://marketpublishers.com/r/M84B89B77E7DEN.html>

Date: March 2024

Pages: 143

Price: US\$ 3,899.00 (Single User License)

ID: M84B89B77E7DEN

## **Abstracts**

The global metalworking fluids market size reached US\$ 11.4 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 15.4 Billion by 2032, exhibiting a growth rate (CAGR) of 3.3% during 2024-2032.

Metalworking fluids (MWF) refer to a range of liquids and oils that are used to lubricate and cool down metal pieces while they are being machined, ground and milled. The MWFs reduce friction and heat in-between the cutting tool and the workpiece and prevent smoking or burning while inhibiting corrosion. These fluids find extensive applications worldwide in mechanical workshops for cutting and shaping metals. Furthermore, they aid in extending a vehicle's component life by maintaining lubrication, reducing the chances of wear and tear or any physical and thermal deformation, along with delivering superior surface finish and texture in the welding process.

The thriving automotive industry is the key factor driving the market. Metals are widely used to provide structural strength and durability to automobile vehicles. Consequently, metalworking fluids are required for metal removal, chemical treatment and protection, and enhancing the overall work hours of the tool. Furthermore, increased consumer spending on vehicle modifications has catalyzed the market growth. A shift in the preference from traditional metal alloys to stainless steel, aluminum and titanium is also projected to drive the market further. These metals provide lightweight and long-lasting features to the equipment which are highly desirable in the market. Moreover, increasing research and development (R&D) activities conducted by original equipment manufacturers (OEM) to produce higher volumes of metal components that ensure energy efficiency in equipment is also projected to drive the demand for metalworking fluids in the coming years.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global metalworking fluids market report, along with forecasts at the global and regional level from 2024-2032. Our report has categorized the market based on product type, source, end use, fluid type and industry.

#### Breakup by Product Type:

- Removal Fluids
- Forming Fluids
- Protection Fluids
- Treating Fluids

#### Breakup by Source:

- Mineral
- Synthetic
- Bio-Based

#### Breakup by End Use:

- Transportation Equipment
- Machinery
- Primary Metals
- Fabricated Metal Products
- Metal Cans

## Others

### Breakup by Fluid Type:

- Neat Cutting Oils
- Water Cutting Oils
- Soluble Cutting Oils
- Semi-synthetic Cutting Oils
- Synthetic Cutting Oils
- Corrosion Preventive Oils
- Others

### Breakup by Industry:

- Construction
- Electrical and Power
- Agriculture
- Automobile
- Aerospace
- Others

### Breakup by Region:

- Asia Pacific
- North America
- Europe
- Middle East and Africa
- Latin America

### Competitive Landscape:

The report has also analyzed the competitive landscape of the market with some of the key players being BP, Chevron, Houghton International, ExxonMobil, Total S.A., Apar, Hindustan Petroleum Corporation Limited, Castrol Limited, Indian Oil Corporation Limited, Lubrizol, Gazprom, Pertamina, Columbia Petro, PETRONAS Lubricants International and Quaker Chemical Corporation.

### Key Questions Answered in This Report:

How has the global metalworking fluids market performed so far and how will it perform in the coming years?

What are the key regional markets in the global metalworking fluids industry?

What has been the impact of COVID-19 on the global metalworking fluids industry?

What is the breakup of the market based on the product type?

What is the breakup of the market based on the source?

What is the breakup of the market based on the end use?

What is the breakup of the market based on the fluid type?

What is the breakup of the market based on the industry?

What are the various stages in the value chain of the global metalworking fluids industry?

What are the key driving factors and challenges in the global metalworking fluids industry?

What is the structure of the global metalworking fluids industry and who are the key players?

What is the degree of competition in the global metalworking fluids industry?

## Contents

### **1 PREFACE**

### **2 SCOPE AND METHODOLOGY**

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

### **3 EXECUTIVE SUMMARY**

### **4 INTRODUCTION**

- 4.1 Overview
- 4.2 Key Industry Trends

### **5 GLOBAL METALWORKING FLUIDS MARKET**

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Breakup by Product Type
- 5.5 Market Breakup by Source
- 5.6 Market Breakup by End Use
- 5.7 Market Breakup by Fluid Type
- 5.8 Market Breakup by Industry
- 5.9 Market Breakup by Region
- 5.10 Market Forecast

### **6 MARKET BREAKUP BY PRODUCT TYPE**

- 6.1 Removal Fluids

- 6.1.1 Market Trends
- 6.1.2 Market Forecast
- 6.2 Forming Fluids
  - 6.2.1 Market Trends
  - 6.2.2 Market Forecast
- 6.3 Protection Fluids
  - 6.3.1 Market Trends
  - 6.3.2 Market Forecast
- 6.4 Treating Fluids
  - 6.4.1 Market Trends
  - 6.4.2 Market Forecast

## **7 MARKET BREAKUP BY SOURCE**

- 7.1 Mineral
  - 7.1.1 Market Trends
  - 7.1.2 Market Forecast
- 7.2 Synthetic
  - 7.2.1 Market Trends
  - 7.2.2 Market Forecast
- 7.3 Bio-Based
  - 7.3.1 Market Trends
  - 7.3.2 Market Forecast

## **8 MARKET BREAKUP BY END USE**

- 8.1 Transportation Equipment
  - 8.1.1 Market Trends
  - 8.1.2 Market Forecast
- 8.2 Machinery
  - 8.2.1 Market Trends
  - 8.2.2 Market Forecast
- 8.3 Primary Metals
  - 8.3.1 Market Trends
  - 8.3.2 Market Forecast
- 8.4 Fabricated Metal Products
  - 8.4.1 Market Trends
  - 8.4.2 Market Forecast
- 8.5 Metal Cans

- 8.5.1 Market Trends
- 8.5.2 Market Forecast
- 8.6 Others
  - 8.6.1 Market Trends
  - 8.6.2 Market Forecast

## **9 MARKET BREAKUP BY FLUID TYPE**

- 9.1 Neat Cutting Oils
  - 9.1.1 Market Trends
  - 9.1.2 Market Forecast
- 9.2 Water Cutting Oils
  - 9.2.1 Market Trends
  - 9.2.2 Major Types
    - 9.2.2.1 Soluble Cutting Oils
    - 9.2.2.2 Semi-synthetic Cutting Oils
    - 9.2.2.3 Synthetic Cutting Oils
  - 9.2.3 Market Forecast
- 9.3 Corrosion Preventive Oils
  - 9.3.1 Market Trends
  - 9.3.2 Market Forecast
- 9.4 Others
  - 9.4.1 Market Trends
  - 9.4.2 Market Forecast

## **10 MARKET BREAKUP BY INDUSTRY**

- 10.1 Construction
  - 10.1.1 Market Trends
  - 10.1.2 Market Forecast
- 10.2 Electrical and Power
  - 10.2.1 Market Trends
  - 10.2.2 Market Forecast
- 10.3 Agriculture
  - 10.3.1 Market Trends
  - 10.3.2 Market Forecast
- 10.4 Automobile
  - 10.4.1 Market Trends
  - 10.4.2 Market Forecast

## 10.5 Aerospace

### 10.5.1 Market Trends

### 10.5.2 Market Forecast

## 10.6 Others

### 10.6.1 Market Trends

### 10.6.2 Market Forecast

## **11 MARKET BREAKUP BY REGION**

### 11.1 Asia Pacific

#### 11.1.1 Market Trends

#### 11.1.2 Market Forecast

### 11.2 North America

#### 11.2.1 Market Trends

#### 11.2.2 Market Forecast

### 11.3 Europe

#### 11.3.1 Market Trends

#### 11.3.2 Market Forecast

### 11.4 Middle East and Africa

#### 11.4.1 Market Trends

#### 11.4.2 Market Forecast

### 11.5 Latin America

#### 11.5.1 Market Trends

#### 11.5.2 Market Forecast

## **12 SWOT ANALYSIS**

### 12.1 Overview

### 12.2 Strengths

### 12.3 Weaknesses

### 12.4 Opportunities

### 12.5 Threats

## **13 VALUE CHAIN ANALYSIS**

## **14 PORTERS FIVE FORCES ANALYSIS**

### 14.1 Overview

### 14.2 Bargaining Power of Buyers



14.3 Bargaining Power of Suppliers

14.4 Degree of Competition

14.5 Threat of New Entrants

14.6 Threat of Substitutes

## **15 PRICE ANALYSIS**

## **16 COMPETITIVE LANDSCAPE**

16.1 Market Structure

16.2 Key Players

16.3 Profiles of Key Players

16.3.1 BP

16.3.2 Chevron

16.3.3 Houghton International

16.3.4 ExxonMobil

16.3.5 Total S.A.

16.3.6 Apar

16.3.7 Hindustan Petroleum Corporation Limited

16.3.8 Castrol Limited

16.3.9 Indian Oil Corporation Limited

16.3.10 Lubrizol

16.3.11 Gazprom

16.3.12 Pertamina

16.3.13 Columbia Petro

16.3.14 PETRONAS Lubricants International

16.3.15 Quaker Chemical Corporation

## List Of Tables

### LIST OF TABLES

Table 1: Global: Metalworking Fluids Market: Key Industry Highlights, 2023 and 2032

Table 2: Global: Metalworking Fluids Market Forecast: Breakup by Product Type (in Million US\$), 2024-2032

Table 3: Global: Metalworking Fluids Market Forecast: Breakup by Source (in Million US\$), 2024-2032

Table 4: Global: Metalworking Fluids Market Forecast: Breakup by End Use (in Million US\$), 2024-2032

Table 5: Global: Metalworking Fluids Market Forecast: Breakup by Fluid Type (in Million US\$), 2024-2032

Table 6: Global: Metalworking Fluids Market Forecast: Breakup by Industry (in Million US\$), 2024-2032

Table 7: Global: Metalworking Fluids Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 8: Global: Metalworking Fluids Market Structure

Table 9: Global: Metalworking Fluids Market: Key Players

## List Of Figures

### LIST OF FIGURES

- Figure 1: Global: Metalworking Fluids Market: Major Drivers and Challenges
- Figure 2: Global: Metalworking Fluids Market: Sales Value (in Billion US\$), 2018-2023
- Figure 3: Global: Metalworking Fluids Market: Breakup by Product Type (in %), 2023
- Figure 4: Global: Metalworking Fluids Market: Breakup by Source (in %), 2023
- Figure 5: Global: Metalworking Fluids Market: Breakup by End Use (in %), 2023
- Figure 6: Global: Metalworking Fluids Market: Breakup by Fluid Type (in %), 2023
- Figure 7: Global: Metalworking Fluids Market: Breakup by Industry (in %), 2023
- Figure 8: Global: Metalworking Fluids Market: Breakup by Region (in %), 2023
- Figure 9: Global: Metalworking Fluids Market Forecast: Sales Value (in Billion US\$), 2024-2032
- Figure 10: Global: Metalworking Fluids Industry: SWOT Analysis
- Figure 11: Global: Metalworking Fluids Industry: Value Chain Analysis
- Figure 12: Global: Metalworking Fluids Industry: Porter's Five Forces Analysis
- Figure 13: Global: Metalworking Fluids (Removal Fluids) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 14: Global: Metalworking Fluids (Removal Fluids) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 15: Global: Metalworking Fluids (Forming Fluids) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 16: Global: Metalworking Fluids (Forming Fluids) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 17: Global: Metalworking Fluids (Protection Fluids) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 18: Global: Metalworking Fluids (Protection Fluids) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 19: Global: Metalworking Fluids (Treating Fluids) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 20: Global: Metalworking Fluids (Treating Fluids) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 21: Global: Metalworking Fluids (Mineral) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 22: Global: Metalworking Fluids (Mineral) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 23: Global: Metalworking Fluids (Synthetic) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 24: Global: Metalworking Fluids (Synthetic) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 25: Global: Metalworking Fluids (Bio-Based) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 26: Global: Metalworking Fluids (Bio-Based) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 27: Global: Metalworking Fluids (Transportation Equipment) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 28: Global: Metalworking Fluids (Transportation Equipment) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 29: Global: Metalworking Fluids (Machinery) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 30: Global: Metalworking Fluids (Machinery) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 31: Global: Metalworking Fluids (Primary Metals) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 32: Global: Metalworking Fluids (Primary Metals) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 33: Global: Metalworking Fluids (Fabricated Metal Products) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 34: Global: Metalworking Fluids (Fabricated Metal Products) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 35: Global: Metalworking Fluids (Metal Cans) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 36: Global: Metalworking Fluids (Metal Cans) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 37: Global: Metalworking Fluids (Other End Uses) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 38: Global: Metalworking Fluids (Other End Uses) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 39: Global: Metalworking Fluids (Neat Cutting Oils) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 40: Global: Metalworking Fluids (Neat Cutting Oils) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 41: Global: Metalworking Fluids (Water Cutting Oils) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 42: Global: Metalworking Fluids (Water Cutting Oils) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 43: Global: Metalworking Fluids (Corrosion Preventive Oils) Market: Sales Value

(in Million US\$), 2018 & 2023

Figure 44: Global: Metalworking Fluids (Corrosion Preventive Oils) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 45: Global: Metalworking Fluids (Other Fluid Types) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 46: Global: Metalworking Fluids (Other Fluid Types) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 47: Global: Metalworking Fluids (Construction) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 48: Global: Metalworking Fluids (Construction) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 49: Global: Metalworking Fluids (Electrical and Power) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 50: Global: Metalworking Fluids (Electrical and Power) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 51: Global: Metalworking Fluids (Agriculture) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 52: Global: Metalworking Fluids (Agriculture) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 53: Global: Metalworking Fluids (Automobile) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 54: Global: Metalworking Fluids (Automobile) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 55: Global: Metalworking Fluids (Aerospace) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 56: Global: Metalworking Fluids (Aerospace) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 57: Global: Metalworking Fluids (Other Industries) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 58: Global: Metalworking Fluids (Other Industries) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 59: Asia Pacific: Metalworking Fluids Market: Sales Value (in Million US\$), 2018 & 2023

Figure 60: Asia Pacific: Metalworking Fluids Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 61: North America: Metalworking Fluids Market: Sales Value (in Million US\$), 2018 & 2023

Figure 62: North America: Metalworking Fluids Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 63: Europe: Metalworking Fluids Market: Sales Value (in Million US\$), 2018 & 2023

Figure 64: Europe: Metalworking Fluids Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 65: Middle East and Africa: Metalworking Fluids Market: Sales Value (in Million US\$), 2018 & 2023

Figure 66: Middle East and Africa: Metalworking Fluids Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 67: Latin America: Metalworking Fluids Market: Sales Value (in Million US\$), 2018 & 2023

Figure 68: Latin America: Metalworking Fluids Market Forecast: Sales Value (in Million US\$), 2024-2032

## I would like to order

Product name: Metalworking Fluids Market Report by Product Type (Removal Fluids, Forming Fluids, Protection Fluids, Treating Fluids), Source (Mineral, Synthetic, Bio-Based), End Use (Transportation Equipment, Machinery, Primary Metals, Fabricated Metal Products, Metal Cans, and Others), Fluid Type (Neat Cutting Oils, Water Cutting Oils, Corrosion Preventive Oils, and Others), Industry (Construction, Electrical and Power, Agriculture, Automobile, Aerospace, and Others), and Region 2024-2032

Product link: <https://marketpublishers.com/r/M84B89B77E7DEN.html>

Price: US\$ 3,899.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/M84B89B77E7DEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:

Last name:

Email:

Company:

Address:

City:

Zip code:

Country:

Tel:

Fax:

Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms

& Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below  
and fax the completed form to +44 20 7900 3970