

Global Water-miscible Metalworking Fluid Market Growth 2025-2031

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Abstracts

The global Water-miscible Metalworking Fluid market size is predicted to grow from US\$ 5047 million in 2025 to US\$ 6388 million in 2031; it is expected to grow at a CAGR of 4.0% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Water-miscible Metalworking Fluid—also known as emulsifiable metalworking fluid—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

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.

LP Information, Inc. (LPI) ' newest research report, the "Water-miscible Metalworking Fluid Industry Forecast" looks at past sales and reviews total world Water-miscible Metalworking Fluid sales in 2024, providing a comprehensive analysis by region and market sector of projected Water-miscible Metalworking Fluid sales for 2025 through 2031. With Water-miscible Metalworking Fluid sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Water-miscible Metalworking Fluid industry.

This Insight Report provides a comprehensive analysis of the global Water-miscible

Metalworking Fluid landscape and highlights key trends related to product segmentation, 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-miscible Metalworking Fluid portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Water-miscible Metalworking Fluid market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Water-miscible Metalworking Fluid 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-miscible Metalworking Fluid.

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

Segmentation by Type:

Metal Cutting Fluids

Metal Forming Fluids

Metal Protecting Fluids

Metal Treating Fluids

Segmentation by Application:

Machinery Manufacturing

Automotive

Aerospace

Engineering Machinery

New Energy

Others

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

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

Petrofer

Master Fluid Solutions

LUKOIL

SINOPEC

Chervon

ENEOS

Talent

Mecom

Amer

Francool

Chemetall

Cosmo Oil Lubricants

Ashburn Chemical Technologies

Oemeta

Siebert GmbH

Rhenus Lub

MERCOOL

Kerun

Key Questions Addressed in this Report

What is the 10-year outlook for the global Water-miscible Metalworking Fluid market?

What factors are driving Water-miscible Metalworking Fluid market growth, globally and by region?

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

How do Water-miscible Metalworking Fluid market opportunities vary by end market size?

How does Water-miscible Metalworking Fluid break out by Type, by Application?

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