

# Global Synthetic Cutting and Grinding Fluid Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Synthetic Cutting and Grinding Fluid market size was valued at US\$ 6745 million in 2025 and is forecast to a readjusted size of US\$ 9804 million by 2032 with a CAGR of 5.5% during review period.

In 2025, global sales of Synthetic Cutting and Grinding Fluids reached approximately 2.85 million tons, with an average selling price of about US\$2,300 per ton. Synthetic Cutting and Grinding Fluids are water-based metalworking fluids formulated with synthetic surfactants, rust inhibitors, extreme pressure lubricants, corrosion inhibitors, and bactericides. They contain little to no mineral oil and are primarily used in high-precision metalworking processes such as turning, milling, grinding, and drilling. Their core functions are cooling, lubrication, cleaning, rust prevention, and extending tool life. Upstream raw materials include synthetic surfactants, amine neutralizers, corrosion inhibitors and bactericides, extreme pressure additives, and deionized water. Surfactants account for approximately 25% of upstream material consumption, additive systems account for approximately 35%, and the remainder is water and functional additives. Downstream supplies mainly go to automotive parts, aerospace, construction machinery, mold manufacturing, and precision electronics processing companies. The automotive and parts sector accounts for approximately 38% of consumption, general machinery approximately 27%, and aerospace and high-end manufacturing approximately 15%. Global total production capacity is approximately 3.5 million tons, with an overall capacity utilization rate of around 80%. The industry average gross profit margin is approximately 28%-35%, while high-end, low-foaming, long-life, and environmentally friendly products can achieve gross profit margins exceeding 40%. Future prospects lie in areas such as increasingly stringent environmental regulations, the replacement of oil-based cutting fluids, and the increasing stability requirements of

precision machining and automated production lines. Demand is significantly driven by the upgrading of high-end manufacturing, and business opportunities are mainly reflected in high-performance formulations, localized customization services, and integrated solutions developed in collaboration with machine tool and cutting tool manufacturers.

From an overall market perspective, synthetic cutting and polishing fluids are transitioning from 'optional products' to 'mainstream solutions.' With increasingly stringent environmental regulations and stricter occupational health requirements, low-VOC, mineral oil-free, and easily biodegradable synthetic products are more likely to pass regulatory approvals and are accelerating their replacement of traditional emulsified oils and semi-synthetic cutting fluids, especially in Europe, the US, and some leading Asian manufacturing countries where penetration rates continue to rise.

From a demand structure perspective, the automotive and construction machinery sectors remain the largest application areas, but growth potential is increasingly coming from aerospace, precision molds, 3C metal parts, and high-end equipment manufacturing. These sectors have higher requirements for processing stability, fluid lifespan, and surface quality, making high-performance, long-life, and low-foaming synthetic cutting and polishing fluids the preferred choice, driving product upgrades towards higher added value.

From a competitive landscape perspective, the market exhibits a trend of 'international brands dominating the high-end market, while domestic companies are rapidly catching up.' Multinational corporations still hold advantages in formulation systems, application databases, and global service networks, while domestic manufacturers, relying on cost control, local response speed, and customized services, are continuously expanding their market share in the mid-range and niche markets, resulting in a slow increase in industry concentration.

From a technological and trend perspective, future competition will focus on formula stability, adaptability to extreme operating conditions, and intelligent management capabilities. Integration with online concentration monitoring, automatic replenishment systems, and digital factory management platforms will transform synthetic cutting and polishing fluids from mere 'consumables' into 'part of the processing system,' resulting in higher customer loyalty and long-term service value.

In summary, the synthetic cutting and polishing fluid market represents a growth market with stable demand and continuous structural optimization. Short-term fluctuations due

to manufacturing cycles are limited, while in the medium to long term, it benefits from the upgrading of high-end manufacturing and the trend towards green manufacturing. This market is suitable for companies with technological accumulation and service capabilities to continuously cultivate and differentiate themselves in this sector.

This report is a detailed and comprehensive analysis for global Synthetic Cutting and Grinding Fluid market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Synthetic Cutting and Grinding Fluid market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Synthetic Cutting and Grinding Fluid market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Synthetic Cutting and Grinding Fluid market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Synthetic Cutting and Grinding Fluid market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Synthetic Cutting and Grinding Fluid

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Synthetic Cutting and Grinding Fluid market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ITWProBrands, Master Fluid Solutions, Castrol, ROCOL, HAI LU JYA HE CO..LTD, FUCHS, ValCOOL, LLC, Zhengzhou Chorus Lubricant Additive Co., Ltd, Hi-Tech Petrochem, Chem Arrow, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

### **Market Segmentation**

Synthetic Cutting and Grinding Fluid market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

#### Market segment by Type

Fully Synthetic Cutting Fluid

Microemulsion Synthetic Fluid

Polymer Solution Type

#### Market segment by Appearance of Diluent

Transparent to Slightly Bluish Transparent Solution

Semi-transparent (Milky White) Solution

Milk-like Emulsion

## Market segment by Dilution Ratio

Dilution Ratio: 2% - 5%

Dilution Ratio: 5% - 10%

Others

## Market segment by Application

Metal Processing

Industrial

Others

## Major players covered

ITWProBrands

Master Fluid Solutions

Castrol

ROCOL

HAI LU JYA HE CO..LTD

FUCHS

ValCOOL, LLC

Zhengzhou Chorus Lubricant Additive Co., Ltd

Hi-Tech Petrochem

Chem Arrow

Eastern Petroleum Pvt

Blachford

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Synthetic Cutting and Grinding Fluid product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Synthetic Cutting and Grinding Fluid, with price, sales quantity, revenue, and global market share of Synthetic Cutting and Grinding Fluid from 2021 to 2026.

Chapter 3, the Synthetic Cutting and Grinding Fluid competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Synthetic Cutting and Grinding Fluid breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Synthetic Cutting and Grinding Fluid market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Synthetic Cutting and Grinding Fluid.

Chapter 14 and 15, to describe Synthetic Cutting and Grinding Fluid sales channel, distributors, customers, research findings and conclusion.

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