

Global High-performance Magnetorheological(MR) Fluid Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global High-performance Magnetorheological(MR) Fluid market size is expected to reach \$ 5561.7 million by 2029, rising at a market growth of 20.1% CAGR during the forecast period (2023-2029).

Magnetorheological fluid is an intelligent fluid material that can control rheological properties (such as kinematic viscosity, shear stress between liquids, yield strength of solid-liquid transition, plastic modulus of liquids and so on) by adjust the magnitude of the magnetic field. It is a solid-liquid two-phase suspension composed of base fluid and magnetizable particles. Under the action of an external magnetic field, it can instantly change from a fluid with good fluidity to a viscoelastic solid, the yield stress can reach 50-100kPa, and the apparent viscosity can be increased by 100,000-1,000,000 times. When the magnetic field is removed, the magnetorheological fluid can be transformed from its original viscoelastic solid to a fluid state again. Therefore, the viscosity (fluidity) of the fluid can be regulated by the magnitude of the surrounding magnetic field. Magnetorheological fluids have the advantages of low conversion energy consumption, easy control, and fast response time (millisecond response), which have broad application prospects in many fields such as aviation, precision polishing, automotive and civil engineering.

This report studies the global High-performance Magnetorheological(MR) Fluid production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High-performance Magnetorheological(MR) Fluid, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of High-

performance Magnetorheological(MR) Fluid that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High-performance Magnetorheological(MR) Fluid total production and demand, 2018-2029, (Tons)

Global High-performance Magnetorheological(MR) Fluid total production value, 2018-2029, (USD Million)

Global High-performance Magnetorheological(MR) Fluid production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global High-performance Magnetorheological(MR) Fluid consumption by region & country, CAGR, 2018-2029 & (Tons)

U.S. VS China: High-performance Magnetorheological(MR) Fluid domestic production, consumption, key domestic manufacturers and share

Global High-performance Magnetorheological(MR) Fluid production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Tons)

Global High-performance Magnetorheological(MR) Fluid production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global High-performance Magnetorheological(MR) Fluid production by Application production, value, CAGR, 2018-2029, (USD Million) & (Tons)

This reports profiles key players in the global High-performance Magnetorheological(MR) Fluid market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Arus MR Tech` (AMT), Liquids Research Limited, LORD Corporation, Nippon Paint Holdings Co., Ltd., Akebono Brake Industry Co., Ltd., Anton Paar GmbH, Arus MR Tech Pvt Ltd., CK Materials Lab Co., Ltd. and Industrial Metal Powders (I) Pvt Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World High-performance Magnetorheological(MR) Fluid market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global High-performance Magnetorheological(MR) Fluid Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High-performance Magnetorheological(MR) Fluid Market, Segmentation by Type

Silicon Oil

Mineral Oil

Synthetic Hydrocarbon Oil

Paraffin Oil

Hydraulic Oil

Water

Others

Global High-performance Magnetorheological(MR) Fluid Market, Segmentation by Application

Automotive

Aerospace

Building & Construction

Military & Defense

Optics

Electrical & Electronics

Medical

Robotics

Others

Companies Profiled:

Arus MR Tech` (AMT)

Liquids Research Limited

LORD Corporation

Nippon Paint Holdings Co., Ltd.

Akebono Brake Industry Co., Ltd.

Anton Paar GmbH

Arus MR Tech Pvt Ltd.

CK Materials Lab Co., Ltd.

Industrial Metal Powders (I) Pvt Ltd.

Loniqa Technologies B.V.

Kurimoto, Ltd.

MRF Engineering

QED Technologies International, Inc.

Bohai New Materials

Key Questions Answered

1. How big is the global High-performance Magnetorheological(MR) Fluid market?
2. What is the demand of the global High-performance Magnetorheological(MR) Fluid market?
3. What is the year over year growth of the global High-performance Magnetorheological(MR) Fluid market?
4. What is the production and production value of the global High-performance Magnetorheological(MR) Fluid market?
5. Who are the key producers in the global High-performance Magnetorheological(MR) Fluid market?

6. What are the growth factors driving the market demand?

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