

Global MDH Flame Retardant 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 MDH Flame Retardant market size was valued at US\$ 669 million in 2025 and is forecast to a readjusted size of US\$ 979 million by 2032 with a CAGR of 5.7% during review period.

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Upstream, the main focus is on raw material supply, with core raw materials including magnesite (used to produce magnesium hydroxide), as well as the energy and auxiliary materials required in the production process. Downstream, it is widely used for flame retardancy in plastics such as polypropylene (PP) and polyethylene (PE).">MDH flame retardant is short for magnesium hydroxide (Mg(OH)₂), a halogen-free, environmentally friendly inorganic flame retardant. It absorbs heat and achieves its flame-retardant effect by releasing moisture during thermal decomposition. Simultaneously, the magnesium oxide byproduct formed can form a char layer on the material surface, isolating oxygen and heat, reducing smoke and toxic gas production. Upstream, the main focus is on raw material supply, with core raw materials including magnesite (used to produce magnesium hydroxide), as well as the energy and auxiliary materials required in the production process. Downstream, it is widely used for flame retardancy in plastics such

as polypropylene (PP) and polyethylene (PE).

Global sales volume in 2024 was approximately 280,000 tons, with an average market price of approximately US\$2,230 per ton. The industry's gross profit margin ranged from 15% to 30%.

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Strong demand from downstream industries has provided a vast market space for the sector. Magnesium hydroxide flame retardant is widely used in polymer materials such as polyvinyl chloride (PVC), polyethylene (PE), engineering thermoplastics, and rubber products. Demand growth is particularly significant in industries with extremely high requirements for flame retardancy and smoke suppression, such as wire and cable and electronics manufacturing.">With increasingly stringent environmental performance requirements for flame-retardant materials worldwide, magnesium hydroxide (MDH) flame retardant, with its non-toxic, smoke-suppressing, and non-corrosive gas-producing properties, has become an ideal alternative to halogenated flame retardants.Strong demand from downstream industries has provided a vast market space for the sector. Magnesium hydroxide flame retardant is widely used in polymer materials such as polyvinyl chloride (PVC), polyethylene (PE), engineering thermoplastics, and rubber products. Demand growth is particularly significant in industries with extremely high requirements for flame retardancy and smoke suppression, such as wire and cable and electronics manufacturing.

With numerous participants in the global market and increasingly fierce competition, companies need to continuously improve product performance and quality to maintain their competitiveness.

This report is a detailed and comprehensive analysis for global MDH Flame Retardant 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 MDH Flame Retardant market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

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

Global MDH Flame Retardant 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 MDH Flame Retardant 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 MDH Flame Retardant

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 MDH Flame Retardant 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 ICL, Huber Engineered Materials, Martin Marietta, Kyowa Chemical, Ube Material Industries, Konoshima, Tateho Chemical, Nuova Sima, Puyang Refractories, XuSen, etc.

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

Market Segmentation

MDH Flame Retardant 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

Chemical Synthesis

Physical Crushing

Market segment by Purity

Purity?99%

Purity?95%

Other

Market segment by Particle Size

3–10 ?m

1–3 ?m

Other

Market segment by Application

Plastic Industry

Rubber Industry

Other

Major players covered

ICL

Huber Engineered Materials

Martin Marietta

Kyowa Chemical

Ube Material Industries

Konoshima

Tateho Chemical

Nuova Sima

Puyang Refractories

XuSen

Hellon

ATK Flame Retardant Materials

Henan Qianghong Magnesium Industry

Dalian Yatai Technology New Materials

Guangdong Yuxing Fire-retardant New Materials

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 MDH Flame Retardant product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of MDH Flame Retardant, with price, sales quantity, revenue, and global market share of MDH Flame Retardant from 2021 to 2026.

Chapter 3, the MDH Flame Retardant competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the MDH Flame Retardant 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 MDH Flame Retardant 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 MDH Flame Retardant.

Chapter 14 and 15, to describe MDH Flame Retardant sales channel, distributors, customers, research findings and conclusion.

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