

# Global Magnesium Hydroxide Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Magnesium Hydroxide market size is expected to reach \$ 1790 million by 2032, rising at a market growth of 5.9% CAGR during the forecast period (2026-2032).

Magnesium hydroxide (Mg(OH)<sub>2</sub>) is an inorganic compound widely recognized for its applications across environmental, chemical, pharmaceutical, and industrial sectors. Appearing as a white, crystalline, or fine amorphous powder, it is known for its basic (alkaline) nature and moderate reactivity. In its naturally occurring form, it is found as the mineral brucite, though industrial production typically involves precipitation reactions between magnesium salts (like magnesium chloride) and alkaline substances (like sodium hydroxide). Magnesium hydroxide acts primarily as an antacid, flame retardant, pH regulator, and neutralizing agent, making it a versatile compound with broad commercial significance.

From a market definition standpoint, magnesium hydroxide is often categorized according to its application-specific grade—industrial, pharmaceutical, or environmental. The industrial-grade magnesium hydroxide is used extensively in wastewater treatment, flue gas desulfurization (FGD), flame retardants, and in the production of magnesium-based chemicals. It plays a critical role in neutralizing acidic wastewater, precipitating heavy metals, and maintaining regulatory compliance for discharge standards. In environmental protection, magnesium hydroxide is gaining traction as a greener alternative to traditional neutralizing agents such as caustic soda (NaOH) or lime (Ca(OH)<sub>2</sub>), thanks to its lower exothermicity, ease of handling, and lower corrosiveness. Additionally, its use as a non-halogenated flame retardant in polymer composites—particularly in wire and cable insulation, construction materials, and automotive parts—is expanding due to increasing safety regulations and the drive toward halogen-free systems.

Market growth for magnesium hydroxide is being shaped by several macroeconomic and regulatory trends. Environmental regulations are among the strongest drivers, particularly in developed regions such as North America, Europe, and parts of East Asia, where there is mounting pressure on industries to treat effluents effectively and reduce harmful emissions. In this context, magnesium hydroxide offers a safe and cost-effective solution for pH control, heavy metal precipitation, and odor control in municipal and industrial wastewater treatment. It also plays an increasingly important role in air pollution control systems, especially in flue gas desulfurization processes for coal-fired power plants and waste incinerators, where it reacts with sulfur dioxide to form magnesium sulfite or sulfate.

Another major driver is the rising demand for flame retardants in construction, electronics, and transportation. As fire safety standards tighten and halogenated flame retardants face regulatory restrictions due to environmental and health concerns, magnesium hydroxide and similar inorganic alternatives (like aluminum hydroxide) are becoming preferred solutions. Magnesium hydroxide is particularly valued because it decomposes endothermically at high temperatures, releasing water vapor that cools surfaces and dilutes flammable gases, while leaving non-toxic residues. This performance, combined with its low smoke and toxicity profile, makes it ideal for sustainable flame-retardant applications.

Global Magnesium Hydroxide key players include Ube Materials, Martin Marietta, Huber Engineered Materials (HEM), Yantai FR Flame Technology, Qinghai West Magnesium, etc. Global top five manufacturers hold a share about 50%. China is the largest market, with a share about 30%, followed by Japan and Europe, both have a share over 45 percent.

This report studies the global Magnesium Hydroxide production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Magnesium Hydroxide and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Magnesium Hydroxide that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Magnesium Hydroxide total production and demand, 2021-2032, (K MT)

Global Magnesium Hydroxide total production value, 2021-2032, (USD Million)

Global Magnesium Hydroxide production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K MT), (based on production site)

Global Magnesium Hydroxide consumption by region & country, CAGR, 2021-2032 & (K MT)

U.S. VS China: Magnesium Hydroxide domestic production, consumption, key domestic manufacturers and share

Global Magnesium Hydroxide production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K MT)

Global Magnesium Hydroxide production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

Global Magnesium Hydroxide production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

This report profiles key players in the global Magnesium Hydroxide 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 Ube Materials, Martin Marietta, Kyowa Chemical, Huber Engineered Materials (HEM), ICL, Konoshima Chemical, Russian Mining Chemical, Nedmag, NikoMag, Air Water, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Magnesium Hydroxide market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K MT) and average price (USD/MT) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Magnesium Hydroxide Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Magnesium Hydroxide Market, Segmentation by Type:

Chemical Synthesis Method

Physical Method

Global Magnesium Hydroxide Market, Segmentation by Product Form:

Slurry

Powder

Global Magnesium Hydroxide Market, Segmentation by Grade:

Industrial Grade

Flame Retardant Grade

Food Grade

Pharmaceutical Grade

Others

## Global Magnesium Hydroxide Market, Segmentation by Application:

Water Treatment

Flame Retardant Industry

Pharmaceutical & Food

Other Applications

## Companies Profiled:

Ube Materials

Martin Marietta

Kyowa Chemical

Huber Engineered Materials (HEM)

ICL

Konoshima Chemical

Russian Mining Chemical

Nedmag

NikoMag

Air Water

Naikai Salt

Xinyang Minerals

Liaoning Deer

Dandong Yungsing

Shandong TaiXing Advanced Material

Yantai FR Flame Technology

Qinghai West Magnesium

ATK Flame Retardant Materials

Weifang Haililong

**Key Questions Answered:**

1. How big is the global Magnesium Hydroxide market?
2. What is the demand of the global Magnesium Hydroxide market?
3. What is the year over year growth of the global Magnesium Hydroxide market?
4. What is the production and production value of the global Magnesium Hydroxide market?
5. Who are the key producers in the global Magnesium Hydroxide market?
6. What are the growth factors driving the market demand?

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