

Global Magnesium Hydride Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Magnesium Hydride market size is expected to reach \$ 779 million by 2032, rising at a market growth of 51.8% CAGR during the forecast period (2026-2032).

In 2025, global Magnesium Hydride production reached approximately 40 tons, with an average global market price of around US\$980 per kilogram. Magnesium hydride (MgH₂) is a white, crystalline solid compound, often appearing gray, used mainly as a high-capacity solid-state hydrogen storage medium. It reacts violently with water and can ignite in air. It is heavily researched for hydrogen fuel storage and recently for postharvest flower preservation by controlling hydrogen release.

According to our research, magnesium hydride should not be treated as a conventional bulk magnesium chemical. It is better understood as an early-stage, high-capacity solid-state hydrogen storage material. Its industrial appeal comes from the high theoretical hydrogen content of MgH₂ and the relative abundance of magnesium resources, while its commercialization barriers remain evident. These barriers include relatively high hydrogen release temperature, slow hydrogen absorption and desorption kinetics, strong powder reactivity, demanding thermal management requirements, and long customer qualification cycles. From the supply side, the number of companies with clear official evidence of industrial-scale or hundred-ton-level magnesium hydride production remains limited. China currently shows the strongest signals in scale-up and project conversion, while Europe, Australia, and North America are more visible in slurry, paste, system integration, and technology demonstration routes. Reagent catalogue suppliers can provide magnesium hydride in small packages, but their business model is different from industrial hydrogen-storage material producers and should not be directly treated as the core competitive base.

From the demand side, future growth will likely come from a combination of solid-state hydrogen storage, distributed hydrogen supply, portable fuel-cell hydrogen sources, safer low-pressure hydrogen logistics, and specialty research or advanced material applications. In the near term, the industry is still dominated by demonstration projects, customized material supply, and small-batch validation. Therefore, the market should not be extrapolated from reagent-grade prices, because industrial bulk materials and laboratory-grade products follow very different pricing structures. Over the medium to long term, if hundred-ton-level production lines operate stably and larger-scale projects are successfully commissioned, magnesium hydride could move from a niche research material toward a specialty hydrogen-storage material category. However, it will continue to face substitution pressure from compressed hydrogen, liquid hydrogen, liquid organic hydrogen carriers, ammonia-based hydrogen carriers, and other metal hydride systems. The industry outlook will depend on cost reduction, improved hydrogen release performance, system-level thermal efficiency, and the emergence of real applications that can absorb meaningful material volumes.

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

This report is a detailed and comprehensive analysis of the world market for Magnesium Hydride 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 Hydride that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Magnesium Hydride total production and demand, 2021-2032, (Tons)

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

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

Global Magnesium Hydride consumption by region & country, CAGR, 2021-2032 & (Tons)

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

Global Magnesium Hydride production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Magnesium Hydride production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Magnesium Hydride production by Application, production, value, CAGR,

2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Magnesium Hydride 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 MG Power, Dalian Funde Jinyu Clean Energy, Tokuyama Corporation, Biocoke Lab, Sinonesium Time Technology, GRIMAT, Hydrogen Storage (Shanghai), 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 Hydride market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Kg) 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 Hydride Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Magnesium Hydride Market, Segmentation by Type:

Powder

Block

Tablet

Global Magnesium Hydride Market, Segmentation by Purity:

Purity ≥90%

Purity ≥99%

Global Magnesium Hydride Market, Segmentation by Hydrogen Storage Density:

Hydrogen Storage Density >6 wt%

Hydrogen Storage Density >7 wt%

Global Magnesium Hydride Market, Segmentation by Application:

Hydrogen Energy

Medical

Others

Companies Profiled:

MG Power

Dalian Funde Jinyu Clean Energy

Tokuyama Corporation

Biocoke Lab

Sinonesium Time Technology

GRIMAT

Hydrogen Storage (Shanghai)

Key Questions Answered:

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

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