

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

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Abstracts

The global Magnesium Hydride for Hydrogen Storage market size is expected to reach \$ 749 million by 2032, rising at a market growth of 51.3% CAGR during the forecast period (2026-2032).

In 2025, global Magnesium Hydride for Hydrogen Storage production reached approximately 39 tons, with an average global market price of around US\$982 per kilogram. Magnesium hydride (MgH₂) is a promising solid-state, high-capacity hydrogen storage material (7.6 wt% theoretical capacity). It is valued for being safe, non-explosive, and affordable. While it suffers from high decomposition temperatures (~287-300?), catalysts and nanostructuring (e.g., Nb₂O₅), graphene) are used to improve its kinetics.

The development of the global magnesium hydride for hydrogen storage market is fundamentally supported by the large-scale advancement of the global hydrogen energy industry, along with hydrogen energy development strategies and carbon neutrality targets issued by governments worldwide, which deliver long-term stable policy support and underlying demand foundation for the market. As a core material category in solid-state hydrogen storage, magnesium hydride has inherent hydrogen storage performance advantages from its material properties, which fit the technological upgrading needs of the storage and transportation link in the hydrogen energy industry chain, form differentiated application value in the full hydrogen energy application chain, and drive the continuous release of market demand. The supply stability of raw materials and technological iteration level of preparation processes directly determine products' cost control ability and performance optimization space, and are key elements for market participants to build core competitiveness. The regional layout trend of the global hydrogen energy industrial chain, coupled with gaps in R&D

investment and industrial supporting capacity across regions, forms a regional differentiation pattern of market supply and demand. Meanwhile, the continuous upgrading of technical standards, safety and environmental compliance requirements in global hydrogen energy storage and transportation drives the iteration of industry preparation technologies and product performance. Products meeting higher standards and compliance rules become the core direction of market development, and further raise the industry's overall access threshold and competitive barriers.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

Global Magnesium Hydride for Hydrogen Storage production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Magnesium Hydride for Hydrogen Storage 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 for Hydrogen Storage 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 for Hydrogen Storage Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Magnesium Hydride for Hydrogen Storage Market, Segmentation by Type:

Powder

Block

Tablet

Global Magnesium Hydride for Hydrogen Storage Market, Segmentation by Purity:

Purity ≥90%

Purity ≥99%

Global Magnesium Hydride for Hydrogen Storage Market, Segmentation by Hydrogen Storage Density:

Hydrogen Storage Density >6 wt%

Hydrogen Storage Density >7 wt%

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

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