

# Global Magnesium Hydride Market Growth 2026-2032

<https://marketpublishers.com/r/G4E195B0140AEN.html>

Date: July 2026

Pages: 99

Price: US\$ 3,660.00 (Single User License)

ID: G4E195B0140AEN

## Abstracts

The global Magnesium Hydride market size is predicted to grow from US\$ 38.15 million in 2025 to US\$ 840 million in 2032; it is expected to grow at a CAGR of 55.0% from 2026 to 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 ( $MgH_2$ ) 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  $MgH_2$  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.

LP Information, Inc. (LPI) ' newest research report, the "Magnesium Hydride Industry Forecast" looks at past sales and reviews total world Magnesium Hydride sales in 2025, providing a comprehensive analysis by region and market sector of projected Magnesium Hydride sales for 2026 through 2032. With Magnesium Hydride sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Magnesium Hydride industry.

This Insight Report provides a comprehensive analysis of the global Magnesium Hydride landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Magnesium Hydride portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Magnesium Hydride market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Magnesium Hydride and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Magnesium Hydride.

This report presents a comprehensive overview, market shares, and growth opportunities of Magnesium Hydride market by product type, application, key

manufacturers and key regions and countries.

#### Segmentation by Type:

Powder

Block

Tablet

#### Segmentation by Purity:

Purity ≥90%

Purity ≥99%

#### Segmentation by Hydrogen Storage Density:

Hydrogen Storage Density >6 wt%

Hydrogen Storage Density >7 wt%

#### Segmentation by Application:

Hydrogen Energy

Medical

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

MG Power

Dalian Funde Jinyu Clean Energy

Tokuyama Corporation

Biocoke Lab

Sinonesium Time Technology

GRIMAT

Hydrogen Storage (Shanghai)

#### Key Questions Addressed in this Report

What is the 10-year outlook for the global Magnesium Hydride market?

What factors are driving Magnesium Hydride market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Magnesium Hydride market opportunities vary by end market size?

How does Magnesium Hydride break out by Type, by Application?

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