

Global Magnesium-based Solid Hydrogen Storage Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Magnesium-based Solid Hydrogen Storage market size will reach 44.29 Million USD in 2025 and is projected to reach 1,554.01 Million USD by 2032, with a CAGR of 66.24% (2025-2032). Notably, the China Magnesium-based Solid Hydrogen Storage market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Magnesium-based solid hydrogen storage involves using magnesium (Mg) as a medium to store hydrogen gas in a solid form. Typically, this process involves hydrogen atoms being absorbed into the lattice structure of magnesium to form magnesium hydride (MgH₂). This absorption process is reversible, allowing for the release of hydrogen when needed. Magnesium-based solid hydrogen storage is promising for hydrogen fuel applications due to its high hydrogen storage capacity by weight, relatively low cost, and abundance. However, challenges include slow kinetics of hydrogen absorption and desorption, high operating temperatures, and the need for catalysts or additives to improve performance.

The major global manufacturers of Magnesium-based Solid Hydrogen Storage include MG Power, GRIMAT, Shanghai H2store Energy Technology, Biocoal Lab, Sigma Aldrich, Jiangsu JITRI Advanced Energy Materials, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading

enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Magnesium-based Solid Hydrogen Storage. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Magnesium-based Solid Hydrogen Storage market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Magnesium-based Solid Hydrogen Storage market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Magnesium-based Solid Hydrogen Storage industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Magnesium-based Solid Hydrogen Storage Include:

MG Power

GRIMAT

Shanghai H2store Energy Technology

Biocoke Lab

Sigma Aldrich

Jiangsu JITRI Advanced Energy Materials

Magnesium-based Solid Hydrogen Storage Product Segment Include:

Powder Solid Hydrogen Storage Material

Block Solid Hydrogen Storage Material

Magnesium-based Solid Hydrogen Storage Product Application Include:

New Energy

Medical

Others

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