

Global Metal Hydride Storage Material Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Metal Hydride Storage Material market size will reach Million USD in 2025 and is projected to reach Million USD by 2032, with a CAGR of % (2025-2032). Notably, the China Metal Hydride Storage Material 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

Metal hydride storage materials are substances capable of storing hydrogen through a reversible chemical reaction between metal atoms and hydrogen molecules. These materials typically consist of metals like titanium, magnesium, and rare earth metals (such as lanthanum, cerium, and yttrium) that can form hydrides. When hydrogen is absorbed by the metal, it forms a hydride compound, releasing heat in the process. This hydride compound can store a significant amount of hydrogen at relatively low pressures and temperatures, making it suitable for hydrogen storage in various applications. Metal hydride storage materials are used in hydrogen fuel cells, hydrogen storage tanks for vehicles, and portable hydrogen storage devices. They offer advantages such as high storage density, safety, and ease of handling compared to other hydrogen storage methods. Additionally, metal hydrides can release hydrogen when heated or subjected to certain conditions, allowing for controlled and efficient release of hydrogen when needed for energy applications.

The major global manufacturers of Metal Hydride Storage Material include MG Power,

GRIMAT, Shanghai H2store Energy Technology, Biocoke 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 Metal Hydride Storage Material. 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 Metal Hydride Storage Material 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 Metal Hydride Storage Material 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 Metal Hydride Storage Material 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 Metal Hydride Storage Material Include:

MG Power

GRIMAT

Shanghai H2store Energy Technology

Biocoke Lab

Sigma Aldrich

Jiangsu JITRI Advanced Energy Materials

Metal Hydride Storage Material Product Segment Include:

MgH₂

TiFe

TiMn₂

VH₂

LaNi₅

Metal Hydride Storage Material Product Application Include:

New Energy

Medical

Others

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