

Global Magnesium-based Solid Hydrogen Storage Material Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Magnesium-based Solid Hydrogen Storage Material market size was valued at USD 12 million in 2023 and is forecast to a readjusted size of USD 284.5 million by 2030 with a CAGR of 57.1% during review period.

Magnesium based solid hydrogen storage materials, also known as magnesium based hydrogen storage materials, refer to a type of metal solid hydrogen storage materials that have the advantages of large hydrogen storage capacity, low production cost, and abundant raw materials. The main component of magnesium based solid hydrogen storage materials is magnesium hydride with a purity of over 99%, with impurities such as magnesium and trace amounts of other metal elements. The currently mature magnesium based solid hydrogen storage material is magnesium based hydrogen storage alloy.

Due to the fact that most manufacturers produce magnesium based solid-state hydrogen storage materials for their own use in the production of solid-state hydrogen storage equipment. The product price cannot be obtained, so the report provided only includes income data. Excluding product prices and sales volume.

MG Power, GRIMAT and Shanghai H2store Energy Technology are top 3 manufacturers of magnesium-based solid hydrogen storage material, accounting for 65%. Other giants in the industry include Biocoke Lab, Sigma Aldrich and Jiangsu JITRI Advanced Energy Materials, etc.

Americas is the largest market by region, making up over 50%, followed by APAC and

Europe.

Based on the shape of material, the product can be divided into 2 types--powder and block solid hydrogen storage material, where the powder gains a share over 70%.

In terms of application, new energy and medical are two main segments. And new energy is the largest one, holding a share about 80%.

The Global Info Research report includes an overview of the development of the Magnesium-based Solid Hydrogen Storage Material industry chain, the market status of New Energy (Powder Solid Hydrogen Storage Material, Block Solid Hydrogen Storage Material), Medical (Powder Solid Hydrogen Storage Material, Block Solid Hydrogen Storage Material), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Magnesium-based Solid Hydrogen Storage Material.

Regionally, the report analyzes the Magnesium-based Solid Hydrogen Storage Material markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Magnesium-based Solid Hydrogen Storage Material market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Magnesium-based Solid Hydrogen Storage Material market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Magnesium-based Solid Hydrogen Storage Material industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Sqm), revenue generated, and market share of different by Type (e.g., Powder Solid Hydrogen Storage Material, Block Solid Hydrogen Storage Material).

Industry Analysis: Report analyse the broader industry trends, such as government

policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Magnesium-based Solid Hydrogen Storage Material market.

Regional Analysis: The report involves examining the Magnesium-based Solid Hydrogen Storage Material market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Magnesium-based Solid Hydrogen Storage Material market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Magnesium-based Solid Hydrogen Storage Material:

Company Analysis: Report covers individual Magnesium-based Solid Hydrogen Storage Material manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Magnesium-based Solid Hydrogen Storage Material. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (New Energy, Medical).

Technology Analysis: Report covers specific technologies relevant to Magnesium-based Solid Hydrogen Storage Material. It assesses the current state, advancements, and potential future developments in Magnesium-based Solid Hydrogen Storage Material areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Magnesium-based Solid Hydrogen Storage Material market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through

primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Magnesium-based Solid Hydrogen Storage Material market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Powder Solid Hydrogen Storage Material

Block Solid Hydrogen Storage Material

Market segment by Application

New Energy

Medical

Others

Major players covered

MG Power

GRIMAT

Shanghai H2store Energy Technology

Biocoke Lab

Sigma Aldrich

Jiangsu JITRI Advanced Energy Materials

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Magnesium-based Solid Hydrogen Storage Material product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Magnesium-based Solid Hydrogen Storage Material, with price, sales, revenue and global market share of Magnesium-based Solid Hydrogen Storage Material from 2019 to 2024.

Chapter 3, the Magnesium-based Solid Hydrogen Storage Material competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Magnesium-based Solid Hydrogen Storage Material breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Magnesium-based Solid Hydrogen Storage Material market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Magnesium-based Solid Hydrogen Storage Material.

Chapter 14 and 15, to describe Magnesium-based Solid Hydrogen Storage Material sales channel, distributors, customers, research findings and conclusion.

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