

# Global Magnesium Hydride for Hydrogen Storage Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Magnesium Hydride for Hydrogen Storage market size was valued at US\$ 39.41 million in 2025 and is forecast to a readjusted size of US\$ 749 million by 2032 with a CAGR of 51.3% during review period.

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 ( $MgH_2$ ) 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.,  $Nb_2O_5$ , 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 is a detailed and comprehensive analysis for global Magnesium Hydride for Hydrogen Storage market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

#### Key Features:

Global Magnesium Hydride for Hydrogen Storage market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2021-2032

Global Magnesium Hydride for Hydrogen Storage market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2021-2032

Global Magnesium Hydride for Hydrogen Storage market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2021-2032

Global Magnesium Hydride for Hydrogen Storage market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Kg), 2021-2026

#### The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Magnesium Hydride for Hydrogen Storage

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Magnesium Hydride for Hydrogen Storage market based on the following parameters - company overview, sales quantity, revenue, 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.

## Market Segmentation

Magnesium Hydride for Hydrogen Storage market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Powder

Block

Tablet

### Market segment by Purity

Purity ?90%

Purity ?99%

## Market segment by Hydrogen Storage Density

Hydrogen Storage Density >6 wt%

Hydrogen Storage Density >7 wt%

## Market segment by Application

Hydrogen Energy

Medical

Others

## Major players covered

MG Power

Dalian Funde Jinyu Clean Energy

Tokuyama Corporation

Biocoke Lab

Sinonesium Time Technology

GRIMAT

Hydrogen Storage (Shanghai)

## 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 Hydride for Hydrogen Storage product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Magnesium Hydride for Hydrogen Storage, with price, sales quantity, revenue, and global market share of Magnesium Hydride for Hydrogen Storage from 2021 to 2026.

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

Chapter 4, the Magnesium Hydride for Hydrogen Storage breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and Magnesium Hydride for Hydrogen Storage market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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

Hydride for Hydrogen Storage.

Chapter 14 and 15, to describe Magnesium Hydride for Hydrogen Storage sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Magnesium Hydride for Hydrogen Storage Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Powder

1.3.3 Block

1.3.4 Tablet

1.4 Market Analysis by Purity

1.4.1 Overview: Global Magnesium Hydride for Hydrogen Storage Consumption Value by Purity: 2021 Versus 2025 Versus 2032

1.4.2 Purity ?90%

1.4.3 Purity ?99%

1.5 Market Analysis by Hydrogen Storage Density

1.5.1 Overview: Global Magnesium Hydride for Hydrogen Storage Consumption Value by Hydrogen Storage Density: 2021 Versus 2025 Versus 2032

1.5.2 Hydrogen Storage Density >6 wt%

1.5.3 Hydrogen Storage Density >7 wt%

1.6 Market Analysis by Application

1.6.1 Overview: Global Magnesium Hydride for Hydrogen Storage Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Hydrogen Energy

1.6.3 Medical

1.6.4 Others

1.7 Global Magnesium Hydride for Hydrogen Storage Market Size & Forecast

1.7.1 Global Magnesium Hydride for Hydrogen Storage Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Magnesium Hydride for Hydrogen Storage Sales Quantity (2021-2032)

1.7.3 Global Magnesium Hydride for Hydrogen Storage Average Price (2021-2032)

### 2 MANUFACTURERS PROFILES

2.1 MG Power

2.1.1 MG Power Details

2.1.2 MG Power Major Business

- 2.1.3 MG Power Magnesium Hydride for Hydrogen Storage Product and Services
- 2.1.4 MG Power Magnesium Hydride for Hydrogen Storage Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 MG Power Recent Developments/Updates
- 2.2 Dalian Funde Jinyu Clean Energy
  - 2.2.1 Dalian Funde Jinyu Clean Energy Details
  - 2.2.2 Dalian Funde Jinyu Clean Energy Major Business
  - 2.2.3 Dalian Funde Jinyu Clean Energy Magnesium Hydride for Hydrogen Storage Product and Services
  - 2.2.4 Dalian Funde Jinyu Clean Energy Magnesium Hydride for Hydrogen Storage Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.2.5 Dalian Funde Jinyu Clean Energy Recent Developments/Updates
- 2.3 Tokuyama Corporation
  - 2.3.1 Tokuyama Corporation Details
  - 2.3.2 Tokuyama Corporation Major Business
  - 2.3.3 Tokuyama Corporation Magnesium Hydride for Hydrogen Storage Product and Services
  - 2.3.4 Tokuyama Corporation Magnesium Hydride for Hydrogen Storage Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.3.5 Tokuyama Corporation Recent Developments/Updates
- 2.4 Biocoke Lab
  - 2.4.1 Biocoke Lab Details
  - 2.4.2 Biocoke Lab Major Business
  - 2.4.3 Biocoke Lab Magnesium Hydride for Hydrogen Storage Product and Services
  - 2.4.4 Biocoke Lab Magnesium Hydride for Hydrogen Storage Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.4.5 Biocoke Lab Recent Developments/Updates
- 2.5 Sinonesium Time Technology
  - 2.5.1 Sinonesium Time Technology Details
  - 2.5.2 Sinonesium Time Technology Major Business
  - 2.5.3 Sinonesium Time Technology Magnesium Hydride for Hydrogen Storage Product and Services
  - 2.5.4 Sinonesium Time Technology Magnesium Hydride for Hydrogen Storage Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.5.5 Sinonesium Time Technology Recent Developments/Updates
- 2.6 GRIMAT
  - 2.6.1 GRIMAT Details
  - 2.6.2 GRIMAT Major Business
  - 2.6.3 GRIMAT Magnesium Hydride for Hydrogen Storage Product and Services

2.6.4 GRIMAT Magnesium Hydride for Hydrogen Storage Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 GRIMAT Recent Developments/Updates

2.7 Hydrogen Storage (Shanghai)

2.7.1 Hydrogen Storage (Shanghai) Details

2.7.2 Hydrogen Storage (Shanghai) Major Business

2.7.3 Hydrogen Storage (Shanghai) Magnesium Hydride for Hydrogen Storage Product and Services

2.7.4 Hydrogen Storage (Shanghai) Magnesium Hydride for Hydrogen Storage Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Hydrogen Storage (Shanghai) Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: MAGNESIUM HYDRIDE FOR HYDROGEN STORAGE BY MANUFACTURER**

3.1 Global Magnesium Hydride for Hydrogen Storage Sales Quantity by Manufacturer (2021-2026)

3.2 Global Magnesium Hydride for Hydrogen Storage Revenue by Manufacturer (2021-2026)

3.3 Global Magnesium Hydride for Hydrogen Storage Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Magnesium Hydride for Hydrogen Storage by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Magnesium Hydride for Hydrogen Storage Manufacturer Market Share in 2025

3.4.3 Top 6 Magnesium Hydride for Hydrogen Storage Manufacturer Market Share in 2025

3.5 Magnesium Hydride for Hydrogen Storage Market: Overall Company Footprint Analysis

3.5.1 Magnesium Hydride for Hydrogen Storage Market: Region Footprint

3.5.2 Magnesium Hydride for Hydrogen Storage Market: Company Product Type Footprint

3.5.3 Magnesium Hydride for Hydrogen Storage Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

### **4 CONSUMPTION ANALYSIS BY REGION**

#### 4.1 Global Magnesium Hydride for Hydrogen Storage Market Size by Region

4.1.1 Global Magnesium Hydride for Hydrogen Storage Sales Quantity by Region (2021-2032)

4.1.2 Global Magnesium Hydride for Hydrogen Storage Consumption Value by Region (2021-2032)

4.1.3 Global Magnesium Hydride for Hydrogen Storage Average Price by Region (2021-2032)

4.2 North America Magnesium Hydride for Hydrogen Storage Consumption Value (2021-2032)

4.3 Europe Magnesium Hydride for Hydrogen Storage Consumption Value (2021-2032)

4.4 Asia-Pacific Magnesium Hydride for Hydrogen Storage Consumption Value (2021-2032)

4.5 South America Magnesium Hydride for Hydrogen Storage Consumption Value (2021-2032)

4.6 Middle East & Africa Magnesium Hydride for Hydrogen Storage Consumption Value (2021-2032)

### **5 MARKET SEGMENT BY TYPE**

5.1 Global Magnesium Hydride for Hydrogen Storage Sales Quantity by Type (2021-2032)

5.2 Global Magnesium Hydride for Hydrogen Storage Consumption Value by Type (2021-2032)

5.3 Global Magnesium Hydride for Hydrogen Storage Average Price by Type (2021-2032)

### **6 MARKET SEGMENT BY APPLICATION**

6.1 Global Magnesium Hydride for Hydrogen Storage Sales Quantity by Application (2021-2032)

6.2 Global Magnesium Hydride for Hydrogen Storage Consumption Value by Application (2021-2032)

6.3 Global Magnesium Hydride for Hydrogen Storage Average Price by Application (2021-2032)

### **7 NORTH AMERICA**

7.1 North America Magnesium Hydride for Hydrogen Storage Sales Quantity by Type

(2021-2032)

7.2 North America Magnesium Hydride for Hydrogen Storage Sales Quantity by Application (2021-2032)

7.3 North America Magnesium Hydride for Hydrogen Storage Market Size by Country

7.3.1 North America Magnesium Hydride for Hydrogen Storage Sales Quantity by Country (2021-2032)

7.3.2 North America Magnesium Hydride for Hydrogen Storage Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

## **8 EUROPE**

8.1 Europe Magnesium Hydride for Hydrogen Storage Sales Quantity by Type (2021-2032)

8.2 Europe Magnesium Hydride for Hydrogen Storage Sales Quantity by Application (2021-2032)

8.3 Europe Magnesium Hydride for Hydrogen Storage Market Size by Country

8.3.1 Europe Magnesium Hydride for Hydrogen Storage Sales Quantity by Country (2021-2032)

8.3.2 Europe Magnesium Hydride for Hydrogen Storage Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

## **9 ASIA-PACIFIC**

9.1 Asia-Pacific Magnesium Hydride for Hydrogen Storage Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Magnesium Hydride for Hydrogen Storage Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Magnesium Hydride for Hydrogen Storage Market Size by Region

9.3.1 Asia-Pacific Magnesium Hydride for Hydrogen Storage Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Magnesium Hydride for Hydrogen Storage Consumption Value by

## Region (2021-2032)

- 9.3.3 China Market Size and Forecast (2021-2032)
- 9.3.4 Japan Market Size and Forecast (2021-2032)
- 9.3.5 South Korea Market Size and Forecast (2021-2032)
- 9.3.6 India Market Size and Forecast (2021-2032)
- 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
- 9.3.8 Australia Market Size and Forecast (2021-2032)

## **10 SOUTH AMERICA**

- 10.1 South America Magnesium Hydride for Hydrogen Storage Sales Quantity by Type (2021-2032)
- 10.2 South America Magnesium Hydride for Hydrogen Storage Sales Quantity by Application (2021-2032)
- 10.3 South America Magnesium Hydride for Hydrogen Storage Market Size by Country
  - 10.3.1 South America Magnesium Hydride for Hydrogen Storage Sales Quantity by Country (2021-2032)
  - 10.3.2 South America Magnesium Hydride for Hydrogen Storage Consumption Value by Country (2021-2032)
  - 10.3.3 Brazil Market Size and Forecast (2021-2032)
  - 10.3.4 Argentina Market Size and Forecast (2021-2032)

## **11 MIDDLE EAST & AFRICA**

- 11.1 Middle East & Africa Magnesium Hydride for Hydrogen Storage Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa Magnesium Hydride for Hydrogen Storage Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa Magnesium Hydride for Hydrogen Storage Market Size by Country
  - 11.3.1 Middle East & Africa Magnesium Hydride for Hydrogen Storage Sales Quantity by Country (2021-2032)
  - 11.3.2 Middle East & Africa Magnesium Hydride for Hydrogen Storage Consumption Value by Country (2021-2032)
  - 11.3.3 Turkey Market Size and Forecast (2021-2032)
  - 11.3.4 Egypt Market Size and Forecast (2021-2032)
  - 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
  - 11.3.6 South Africa Market Size and Forecast (2021-2032)

## **12 MARKET DYNAMICS**

- 12.1 Magnesium Hydride for Hydrogen Storage Market Drivers
- 12.2 Magnesium Hydride for Hydrogen Storage Market Restraints
- 12.3 Magnesium Hydride for Hydrogen Storage Trends Analysis
- 12.4 Porters Five Forces Analysis
  - 12.4.1 Threat of New Entrants
  - 12.4.2 Bargaining Power of Suppliers
  - 12.4.3 Bargaining Power of Buyers
  - 12.4.4 Threat of Substitutes
  - 12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

- 13.1 Raw Material of Magnesium Hydride for Hydrogen Storage and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Magnesium Hydride for Hydrogen Storage
- 13.3 Magnesium Hydride for Hydrogen Storage Production Process
- 13.4 Industry Value Chain Analysis

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

- 14.1 Sales Channel
  - 14.1.1 Direct to End-User
  - 14.1.2 Distributors
- 14.2 Magnesium Hydride for Hydrogen Storage Typical Distributors
- 14.3 Magnesium Hydride for Hydrogen Storage Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global Magnesium Hydride for Hydrogen Storage Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Magnesium Hydride for Hydrogen Storage Consumption Value by Purity, (USD Million), 2021 & 2025 & 2032

Table 3. Global Magnesium Hydride for Hydrogen Storage Consumption Value by Hydrogen Storage Density, (USD Million), 2021 & 2025 & 2032

Table 4. Global Magnesium Hydride for Hydrogen Storage Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. MG Power Basic Information, Manufacturing Base and Competitors

Table 6. MG Power Major Business

Table 7. MG Power Magnesium Hydride for Hydrogen Storage Product and Services

Table 8. MG Power Magnesium Hydride for Hydrogen Storage Sales Quantity (Tons), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. MG Power Recent Developments/Updates

Table 10. Dalian Funde Jinyu Clean Energy Basic Information, Manufacturing Base and Competitors

Table 11. Dalian Funde Jinyu Clean Energy Major Business

Table 12. Dalian Funde Jinyu Clean Energy Magnesium Hydride for Hydrogen Storage Product and Services

Table 13. Dalian Funde Jinyu Clean Energy Magnesium Hydride for Hydrogen Storage Sales Quantity (Tons), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Dalian Funde Jinyu Clean Energy Recent Developments/Updates

Table 15. Tokuyama Corporation Basic Information, Manufacturing Base and Competitors

Table 16. Tokuyama Corporation Major Business

Table 17. Tokuyama Corporation Magnesium Hydride for Hydrogen Storage Product and Services

Table 18. Tokuyama Corporation Magnesium Hydride for Hydrogen Storage Sales Quantity (Tons), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Tokuyama Corporation Recent Developments/Updates

Table 20. Biocoke Lab Basic Information, Manufacturing Base and Competitors

Table 21. Biocoke Lab Major Business

Table 22. Biocoke Lab Magnesium Hydride for Hydrogen Storage Product and Services

Table 23. Biocoke Lab Magnesium Hydride for Hydrogen Storage Sales Quantity (Tons), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Biocoke Lab Recent Developments/Updates

Table 25. Sinonesium Time Technology Basic Information, Manufacturing Base and Competitors

Table 26. Sinonesium Time Technology Major Business

Table 27. Sinonesium Time Technology Magnesium Hydride for Hydrogen Storage Product and Services

Table 28. Sinonesium Time Technology Magnesium Hydride for Hydrogen Storage Sales Quantity (Tons), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Sinonesium Time Technology Recent Developments/Updates

Table 30. GRIMAT Basic Information, Manufacturing Base and Competitors

Table 31. GRIMAT Major Business

Table 32. GRIMAT Magnesium Hydride for Hydrogen Storage Product and Services

Table 33. GRIMAT Magnesium Hydride for Hydrogen Storage Sales Quantity (Tons), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. GRIMAT Recent Developments/Updates

Table 35. Hydrogen Storage (Shanghai) Basic Information, Manufacturing Base and Competitors

Table 36. Hydrogen Storage (Shanghai) Major Business

Table 37. Hydrogen Storage (Shanghai) Magnesium Hydride for Hydrogen Storage Product and Services

Table 38. Hydrogen Storage (Shanghai) Magnesium Hydride for Hydrogen Storage Sales Quantity (Tons), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Hydrogen Storage (Shanghai) Recent Developments/Updates

Table 40. Global Magnesium Hydride for Hydrogen Storage Sales Quantity by Manufacturer (2021-2026) & (Tons)

Table 41. Global Magnesium Hydride for Hydrogen Storage Revenue by Manufacturer (2021-2026) & (USD Million)

Table 42. Global Magnesium Hydride for Hydrogen Storage Average Price by Manufacturer (2021-2026) & (US\$/Kg)

Table 43. Market Position of Manufacturers in Magnesium Hydride for Hydrogen Storage, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 44. Head Office and Magnesium Hydride for Hydrogen Storage Production Site of

**Key Manufacturer**

Table 45. Magnesium Hydride for Hydrogen Storage Market: Company Product Type Footprint

Table 46. Magnesium Hydride for Hydrogen Storage Market: Company Product Application Footprint

Table 47. Magnesium Hydride for Hydrogen Storage New Market Entrants and Barriers to Market Entry

Table 48. Magnesium Hydride for Hydrogen Storage Mergers, Acquisition, Agreements, and Collaborations

Table 49. Global Magnesium Hydride for Hydrogen Storage Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 50. Global Magnesium Hydride for Hydrogen Storage Sales Quantity by Region (2021-2026) & (Tons)

Table 51. Global Magnesium Hydride for Hydrogen Storage Sales Quantity by Region (2027-2032) & (Tons)

Table 52. Global Magnesium Hydride for Hydrogen Storage Consumption Value by Region (2021-2026) & (USD Million)

Table 53. Global Magnesium Hydride for Hydrogen Storage Consumption Value by Region (2027-2032) & (USD Million)

Table 54. Global Magnesium Hydride for Hydrogen Storage Average Price by Region (2021-2026) & (US\$/Kg)

Table 55. Global Magnesium Hydride for Hydrogen Storage Average Price by Region (2027-2032) & (US\$/Kg)

Table 56. Global Magnesium Hydride for Hydrogen Storage Sales Quantity by Type (2021-2026) & (Tons)

Table 57. Global Magnesium Hydride for Hydrogen Storage Sales Quantity by Type (2027-2032) & (Tons)

Table 58. Global Magnesium Hydride for Hydrogen Storage Consumption Value by Type (2021-2026) & (USD Million)

Table 59. Global Magnesium Hydride for Hydrogen Storage Consumption Value by Type (2027-2032) & (USD Million)

Table 60. Global Magnesium Hydride for Hydrogen Storage Average Price by Type (2021-2026) & (US\$/Kg)

Table 61. Global Magnesium Hydride for Hydrogen Storage Average Price by Type (2027-2032) & (US\$/Kg)

Table 62. Global Magnesium Hydride for Hydrogen Storage Sales Quantity by Application (2021-2026) & (Tons)

Table 63. Global Magnesium Hydride for Hydrogen Storage Sales Quantity by Application (2027-2032) & (Tons)

Table 64. Global Magnesium Hydride for Hydrogen Storage Consumption Value by Application (2021-2026) & (USD Million)

Table 65. Global Magnesium Hydride for Hydrogen Storage Consumption Value by Application (2027-2032) & (USD Million)

Table 66. Global Magnesium Hydride for Hydrogen Storage Average Price by Application (2021-2026) & (US\$/Kg)

Table 67. Global Magnesium Hydride for Hydrogen Storage Average Price by Application (2027-2032) & (US\$/Kg)

Table 68. North America Magnesium Hydride for Hydrogen Storage Sales Quantity by Type (2021-2026) & (Tons)

Table 69. North America Magnesium Hydride for Hydrogen Storage Sales Quantity by Type (2027-2032) & (Tons)

Table 70. North America Magnesium Hydride for Hydrogen Storage Sales Quantity by Application (2021-2026) & (Tons)

Table 71. North America Magnesium Hydride for Hydrogen Storage Sales Quantity by Application (2027-2032) & (Tons)

Table 72. North America Magnesium Hydride for Hydrogen Storage Sales Quantity by Country (2021-2026) & (Tons)

Table 73. North America Magnesium Hydride for Hydrogen Storage Sales Quantity by Country (2027-2032) & (Tons)

Table 74. North America Magnesium Hydride for Hydrogen Storage Consumption Value by Country (2021-2026) & (USD Million)

Table 75. North America Magnesium Hydride for Hydrogen Storage Consumption Value by Country (2027-2032) & (USD Million)

Table 76. Europe Magnesium Hydride for Hydrogen Storage Sales Quantity by Type (2021-2026) & (Tons)

Table 77. Europe Magnesium Hydride for Hydrogen Storage Sales Quantity by Type (2027-2032) & (Tons)

Table 78. Europe Magnesium Hydride for Hydrogen Storage Sales Quantity by Application (2021-2026) & (Tons)

Table 79. Europe Magnesium Hydride for Hydrogen Storage Sales Quantity by Application (2027-2032) & (Tons)

Table 80. Europe Magnesium Hydride for Hydrogen Storage Sales Quantity by Country (2021-2026) & (Tons)

Table 81. Europe Magnesium Hydride for Hydrogen Storage Sales Quantity by Country (2027-2032) & (Tons)

Table 82. Europe Magnesium Hydride for Hydrogen Storage Consumption Value by Country (2021-2026) & (USD Million)

Table 83. Europe Magnesium Hydride for Hydrogen Storage Consumption Value by

Country (2027-2032) & (USD Million)

Table 84. Asia-Pacific Magnesium Hydride for Hydrogen Storage Sales Quantity by Type (2021-2026) & (Tons)

Table 85. Asia-Pacific Magnesium Hydride for Hydrogen Storage Sales Quantity by Type (2027-2032) & (Tons)

Table 86. Asia-Pacific Magnesium Hydride for Hydrogen Storage Sales Quantity by Application (2021-2026) & (Tons)

Table 87. Asia-Pacific Magnesium Hydride for Hydrogen Storage Sales Quantity by Application (2027-2032) & (Tons)

Table 88. Asia-Pacific Magnesium Hydride for Hydrogen Storage Sales Quantity by Region (2021-2026) & (Tons)

Table 89. Asia-Pacific Magnesium Hydride for Hydrogen Storage Sales Quantity by Region (2027-2032) & (Tons)

Table 90. Asia-Pacific Magnesium Hydride for Hydrogen Storage Consumption Value by Region (2021-2026) & (USD Million)

Table 91. Asia-Pacific Magnesium Hydride for Hydrogen Storage Consumption Value by Region (2027-2032) & (USD Million)

Table 92. South America Magnesium Hydride for Hydrogen Storage Sales Quantity by Type (2021-2026) & (Tons)

Table 93. South America Magnesium Hydride for Hydrogen Storage Sales Quantity by Type (2027-2032) & (Tons)

Table 94. South America Magnesium Hydride for Hydrogen Storage Sales Quantity by Application (2021-2026) & (Tons)

Table 95. South America Magnesium Hydride for Hydrogen Storage Sales Quantity by Application (2027-2032) & (Tons)

Table 96. South America Magnesium Hydride for Hydrogen Storage Sales Quantity by Country (2021-2026) & (Tons)

Table 97. South America Magnesium Hydride for Hydrogen Storage Sales Quantity by Country (2027-2032) & (Tons)

Table 98. South America Magnesium Hydride for Hydrogen Storage Consumption Value by Country (2021-2026) & (USD Million)

Table 99. South America Magnesium Hydride for Hydrogen Storage Consumption Value by Country (2027-2032) & (USD Million)

Table 100. Middle East & Africa Magnesium Hydride for Hydrogen Storage Sales Quantity by Type (2021-2026) & (Tons)

Table 101. Middle East & Africa Magnesium Hydride for Hydrogen Storage Sales Quantity by Type (2027-2032) & (Tons)

Table 102. Middle East & Africa Magnesium Hydride for Hydrogen Storage Sales Quantity by Application (2021-2026) & (Tons)

Table 103. Middle East & Africa Magnesium Hydride for Hydrogen Storage Sales Quantity by Application (2027-2032) & (Tons)

Table 104. Middle East & Africa Magnesium Hydride for Hydrogen Storage Sales Quantity by Country (2021-2026) & (Tons)

Table 105. Middle East & Africa Magnesium Hydride for Hydrogen Storage Sales Quantity by Country (2027-2032) & (Tons)

Table 106. Middle East & Africa Magnesium Hydride for Hydrogen Storage Consumption Value by Country (2021-2026) & (USD Million)

Table 107. Middle East & Africa Magnesium Hydride for Hydrogen Storage Consumption Value by Country (2027-2032) & (USD Million)

Table 108. Magnesium Hydride for Hydrogen Storage Raw Material

Table 109. Key Manufacturers of Magnesium Hydride for Hydrogen Storage Raw Materials

Table 110. Magnesium Hydride for Hydrogen Storage Typical Distributors

Table 111. Magnesium Hydride for Hydrogen Storage Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. Magnesium Hydride for Hydrogen Storage Picture

Figure 2. Global Magnesium Hydride for Hydrogen Storage Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Magnesium Hydride for Hydrogen Storage Revenue Market Share by Type in 2025

Figure 4. Powder Examples

Figure 5. Block Examples

Figure 6. Tablet Examples

Figure 7. Global Magnesium Hydride for Hydrogen Storage Revenue by Purity, (USD Million), 2021 & 2025 & 2032

Figure 8. Global Magnesium Hydride for Hydrogen Storage Revenue Market Share by Purity in 2025

Figure 9. Purity >90% Examples

Figure 10. Purity >99% Examples

Figure 11. Global Magnesium Hydride for Hydrogen Storage Revenue by Hydrogen Storage Density, (USD Million), 2021 & 2025 & 2032

Figure 12. Global Magnesium Hydride for Hydrogen Storage Revenue Market Share by Hydrogen Storage Density in 2025

Figure 13. Hydrogen Storage Density >6 wt% Examples

Figure 14. Hydrogen Storage Density >7 wt% Examples

Figure 15. Global Magnesium Hydride for Hydrogen Storage Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 16. Global Magnesium Hydride for Hydrogen Storage Revenue Market Share by Application in 2025

Figure 17. Hydrogen Energy Examples

Figure 18. Medical Examples

Figure 19. Others Examples

Figure 20. Global Magnesium Hydride for Hydrogen Storage Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 21. Global Magnesium Hydride for Hydrogen Storage Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 22. Global Magnesium Hydride for Hydrogen Storage Sales Quantity (2021-2032) & (Tons)

Figure 23. Global Magnesium Hydride for Hydrogen Storage Price (2021-2032) & (US\$/Kg)

Figure 24. Global Magnesium Hydride for Hydrogen Storage Sales Quantity Market Share by Manufacturer in 2025

Figure 25. Global Magnesium Hydride for Hydrogen Storage Revenue Market Share by Manufacturer in 2025

Figure 26. Producer Shipments of Magnesium Hydride for Hydrogen Storage by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 27. Top 3 Magnesium Hydride for Hydrogen Storage Manufacturer (Revenue) Market Share in 2025

Figure 28. Top 6 Magnesium Hydride for Hydrogen Storage Manufacturer (Revenue) Market Share in 2025

Figure 29. Global Magnesium Hydride for Hydrogen Storage Sales Quantity Market Share by Region (2021-2032)

Figure 30. Global Magnesium Hydride for Hydrogen Storage Consumption Value Market Share by Region (2021-2032)

Figure 31. North America Magnesium Hydride for Hydrogen Storage Consumption Value (2021-2032) & (USD Million)

Figure 32. Europe Magnesium Hydride for Hydrogen Storage Consumption Value (2021-2032) & (USD Million)

Figure 33. Asia-Pacific Magnesium Hydride for Hydrogen Storage Consumption Value (2021-2032) & (USD Million)

Figure 34. South America Magnesium Hydride for Hydrogen Storage Consumption Value (2021-2032) & (USD Million)

Figure 35. Middle East & Africa Magnesium Hydride for Hydrogen Storage Consumption Value (2021-2032) & (USD Million)

Figure 36. Global Magnesium Hydride for Hydrogen Storage Sales Quantity Market Share by Type (2021-2032)

Figure 37. Global Magnesium Hydride for Hydrogen Storage Consumption Value Market Share by Type (2021-2032)

Figure 38. Global Magnesium Hydride for Hydrogen Storage Average Price by Type (2021-2032) & (US\$/Kg)

Figure 39. Global Magnesium Hydride for Hydrogen Storage Sales Quantity Market Share by Application (2021-2032)

Figure 40. Global Magnesium Hydride for Hydrogen Storage Revenue Market Share by Application (2021-2032)

Figure 41. Global Magnesium Hydride for Hydrogen Storage Average Price by Application (2021-2032) & (US\$/Kg)

Figure 42. North America Magnesium Hydride for Hydrogen Storage Sales Quantity Market Share by Type (2021-2032)

Figure 43. North America Magnesium Hydride for Hydrogen Storage Sales Quantity

Market Share by Application (2021-2032)

Figure 44. North America Magnesium Hydride for Hydrogen Storage Sales Quantity

Market Share by Country (2021-2032)

Figure 45. North America Magnesium Hydride for Hydrogen Storage Consumption

Value Market Share by Country (2021-2032)

Figure 46. United States Magnesium Hydride for Hydrogen Storage Consumption Value (2021-2032) & (USD Million)

Figure 47. Canada Magnesium Hydride for Hydrogen Storage Consumption Value (2021-2032) & (USD Million)

Figure 48. Mexico Magnesium Hydride for Hydrogen Storage Consumption Value (2021-2032) & (USD Million)

Figure 49. Europe Magnesium Hydride for Hydrogen Storage Sales Quantity Market Share by Type (2021-2032)

Figure 50. Europe Magnesium Hydride for Hydrogen Storage Sales Quantity Market Share by Application (2021-2032)

Figure 51. Europe Magnesium Hydride for Hydrogen Storage Sales Quantity Market Share by Country (2021-2032)

Figure 52. Europe Magnesium Hydride for Hydrogen Storage Consumption Value Market Share by Country (2021-2032)

Figure 53. Germany Magnesium Hydride for Hydrogen Storage Consumption Value (2021-2032) & (USD Million)

Figure 54. France Magnesium Hydride for Hydrogen Storage Consumption Value (2021-2032) & (USD Million)

Figure 55. United Kingdom Magnesium Hydride for Hydrogen Storage Consumption Value (2021-2032) & (USD Million)

Figure 56. Russia Magnesium Hydride for Hydrogen Storage Consumption Value (2021-2032) & (USD Million)

Figure 57. Italy Magnesium Hydride for Hydrogen Storage Consumption Value (2021-2032) & (USD Million)

Figure 58. Asia-Pacific Magnesium Hydride for Hydrogen Storage Sales Quantity Market Share by Type (2021-2032)

Figure 59. Asia-Pacific Magnesium Hydride for Hydrogen Storage Sales Quantity Market Share by Application (2021-2032)

Figure 60. Asia-Pacific Magnesium Hydride for Hydrogen Storage Sales Quantity Market Share by Region (2021-2032)

Figure 61. Asia-Pacific Magnesium Hydride for Hydrogen Storage Consumption Value Market Share by Region (2021-2032)

Figure 62. China Magnesium Hydride for Hydrogen Storage Consumption Value (2021-2032) & (USD Million)

Figure 63. Japan Magnesium Hydride for Hydrogen Storage Consumption Value (2021-2032) & (USD Million)

Figure 64. South Korea Magnesium Hydride for Hydrogen Storage Consumption Value (2021-2032) & (USD Million)

Figure 65. India Magnesium Hydride for Hydrogen Storage Consumption Value (2021-2032) & (USD Million)

Figure 66. Southeast Asia Magnesium Hydride for Hydrogen Storage Consumption Value (2021-2032) & (USD Million)

Figure 67. Australia Magnesium Hydride for Hydrogen Storage Consumption Value (2021-2032) & (USD Million)

Figure 68. South America Magnesium Hydride for Hydrogen Storage Sales Quantity Market Share by Type (2021-2032)

Figure 69. South America Magnesium Hydride for Hydrogen Storage Sales Quantity Market Share by Application (2021-2032)

Figure 70. South America Magnesium Hydride for Hydrogen Storage Sales Quantity Market Share by Country (2021-2032)

Figure 71. South America Magnesium Hydride for Hydrogen Storage Consumption Value Market Share by Country (2021-2032)

Figure 72. Brazil Magnesium Hydride for Hydrogen Storage Consumption Value (2021-2032) & (USD Million)

Figure 73. Argentina Magnesium Hydride for Hydrogen Storage Consumption Value (2021-2032) & (USD Million)

Figure 74. Middle East & Africa Magnesium Hydride for Hydrogen Storage Sales Quantity Market Share by Type (2021-2032)

Figure 75. Middle East & Africa Magnesium Hydride for Hydrogen Storage Sales Quantity Market Share by Application (2021-2032)

Figure 76. Middle East & Africa Magnesium Hydride for Hydrogen Storage Sales Quantity Market Share by Country (2021-2032)

Figure 77. Middle East & Africa Magnesium Hydride for Hydrogen Storage Consumption Value Market Share by Country (2021-2032)

Figure 78. Turkey Magnesium Hydride for Hydrogen Storage Consumption Value (2021-2032) & (USD Million)

Figure 79. Egypt Magnesium Hydride for Hydrogen Storage Consumption Value (2021-2032) & (USD Million)

Figure 80. Saudi Arabia Magnesium Hydride for Hydrogen Storage Consumption Value (2021-2032) & (USD Million)

Figure 81. South Africa Magnesium Hydride for Hydrogen Storage Consumption Value (2021-2032) & (USD Million)

Figure 82. Magnesium Hydride for Hydrogen Storage Market Drivers

- Figure 83. Magnesium Hydride for Hydrogen Storage Market Restraints
- Figure 84. Magnesium Hydride for Hydrogen Storage Market Trends
- Figure 85. Porters Five Forces Analysis
- Figure 86. Manufacturing Cost Structure Analysis of Magnesium Hydride for Hydrogen Storage in 2025
- Figure 87. Manufacturing Process Analysis of Magnesium Hydride for Hydrogen Storage
- Figure 88. Magnesium Hydride for Hydrogen Storage Industrial Chain
- Figure 89. Sales Channel: Direct to End-User vs Distributors
- Figure 90. Direct Channel Pros & Cons
- Figure 91. Indirect Channel Pros & Cons
- Figure 92. Methodology
- Figure 93. Research Process and Data Source

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