

# Global Magnesium(Mg)-based Hydrogen Storage Containers 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(Mg)-based Hydrogen Storage Containers market size was valued at US\$ 11.76 million in 2025 and is forecast to a readjusted size of US\$ 19.94 million by 2032 with a CAGR of 7.8% during review period.

Magnesium-based hydrogen storage containers utilize magnesium hydride (MgH<sub>2</sub>) which contains 7.6% hydrogen by weight, offering high storage capacity while maintaining light weight due to magnesium's abundance and low density<sup>78</sup>. The containers operate through reversible hydrogen sorption in magnesium powder, absorbing hydrogen readily above dissociation pressure and releasing it when needed, though the process requires temperatures between 250-400°C for optimal performance<sup>67</sup>. Practical implementation faces challenges with sluggish kinetics and strong hydrogen binding in magnesium hydride, necessitating strategies to improve thermodynamic properties for more efficient cycling<sup>8</sup>. Despite these hurdles, magnesium-based containers represent a promising solution for hydrogen storage due to their high capacity potential and material advantages<sup>78</sup>. In 2025, global Magnesium(Mg)-based Hydrogen Storage Containers production reached approximately 9 units with an average global market price of around k US\$1200 per unit.

This report is a detailed and comprehensive analysis for global Magnesium(Mg)-based Hydrogen Storage Containers 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(Mg)-based Hydrogen Storage Containers market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Magnesium(Mg)-based Hydrogen Storage Containers market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Magnesium(Mg)-based Hydrogen Storage Containers market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Magnesium(Mg)-based Hydrogen Storage Containers market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 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(Mg)-based Hydrogen Storage Containers
- 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(Mg)-based Hydrogen Storage Containers 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 McPhy Energy, Hyto Energy, Shanghai Hydrexia, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## **Market Segmentation**

Magnesium(Mg)-based Hydrogen Storage Containers 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

Single Hydride Tank System

Multi-tank Hydride Storage System

### Market segment by Temperature

High-temperature Hydride Tank

Medium-temperature Hydride Tank

Low-temperature Hydride Tank

### Market segment by Application

Hydrogen Storage & Transportation Trailer

Hydrogen-electric Energy Storage System

### Major players covered

McPhy Energy

Hyto Energy

Shanghai Hydrexia

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(Mg)-based Hydrogen Storage Containers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Magnesium(Mg)-based Hydrogen Storage Containers, with price, sales quantity, revenue, and global market share of Magnesium(Mg)-based Hydrogen Storage Containers from 2021 to 2026.

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

Chapter 4, the Magnesium(Mg)-based Hydrogen Storage Containers 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(Mg)-based Hydrogen Storage Containers 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(Mg)-based Hydrogen Storage Containers.

Chapter 14 and 15, to describe Magnesium(Mg)-based Hydrogen Storage Containers 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(Mg)-based Hydrogen Storage Containers  
Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Single Hydride Tank System

1.3.3 Multi-tank Hydride Storage System

1.4 Market Analysis by Temperature

1.4.1 Overview: Global Magnesium(Mg)-based Hydrogen Storage Containers  
Consumption Value by Temperature: 2021 Versus 2025 Versus 2032

1.4.2 High-temperature Hydride Tank

1.4.3 Medium-temperature Hydride Tank

1.4.4 Low-temperature Hydride Tank

1.5 Market Analysis by Application

1.5.1 Overview: Global Magnesium(Mg)-based Hydrogen Storage Containers  
Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.5.2 Hydrogen Storage & Transportation Trailer

1.5.3 Hydrogen-electric Energy Storage System

1.6 Global Magnesium(Mg)-based Hydrogen Storage Containers Market Size &  
Forecast

1.6.1 Global Magnesium(Mg)-based Hydrogen Storage Containers Consumption  
Value (2021 & 2025 & 2032)

1.6.2 Global Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity  
(2021-2032)

1.6.3 Global Magnesium(Mg)-based Hydrogen Storage Containers Average Price  
(2021-2032)

### 2 MANUFACTURERS PROFILES

2.1 McPhy Energy

2.1.1 McPhy Energy Details

2.1.2 McPhy Energy Major Business

2.1.3 McPhy Energy Magnesium(Mg)-based Hydrogen Storage Containers Product  
and Services

2.1.4 McPhy Energy Magnesium(Mg)-based Hydrogen Storage Containers Sales

Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 McPhy Energy Recent Developments/Updates

2.2 Hyto Energy

2.2.1 Hyto Energy Details

2.2.2 Hyto Energy Major Business

2.2.3 Hyto Energy Magnesium(Mg)-based Hydrogen Storage Containers Product and Services

2.2.4 Hyto Energy Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Hyto Energy Recent Developments/Updates

2.3 Shanghai Hydrexia

2.3.1 Shanghai Hydrexia Details

2.3.2 Shanghai Hydrexia Major Business

2.3.3 Shanghai Hydrexia Magnesium(Mg)-based Hydrogen Storage Containers Product and Services

2.3.4 Shanghai Hydrexia Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Shanghai Hydrexia Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: MAGNESIUM(MG)-BASED HYDROGEN STORAGE CONTAINERS BY MANUFACTURER**

3.1 Global Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Manufacturer (2021-2026)

3.2 Global Magnesium(Mg)-based Hydrogen Storage Containers Revenue by Manufacturer (2021-2026)

3.3 Global Magnesium(Mg)-based Hydrogen Storage Containers Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Magnesium(Mg)-based Hydrogen Storage Containers by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Magnesium(Mg)-based Hydrogen Storage Containers Manufacturer Market Share in 2025

3.4.3 Top 6 Magnesium(Mg)-based Hydrogen Storage Containers Manufacturer Market Share in 2025

3.5 Magnesium(Mg)-based Hydrogen Storage Containers Market: Overall Company Footprint Analysis

3.5.1 Magnesium(Mg)-based Hydrogen Storage Containers Market: Region Footprint

3.5.2 Magnesium(Mg)-based Hydrogen Storage Containers Market: Company Product

## Type Footprint

3.5.3 Magnesium(Mg)-based Hydrogen Storage Containers 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(Mg)-based Hydrogen Storage Containers Market Size by Region

4.1.1 Global Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Region (2021-2032)

4.1.2 Global Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value by Region (2021-2032)

4.1.3 Global Magnesium(Mg)-based Hydrogen Storage Containers Average Price by Region (2021-2032)

4.2 North America Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value (2021-2032)

4.3 Europe Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value (2021-2032)

4.4 Asia-Pacific Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value (2021-2032)

4.5 South America Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value (2021-2032)

4.6 Middle East & Africa Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value (2021-2032)

## 5 MARKET SEGMENT BY TYPE

5.1 Global Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Type (2021-2032)

5.2 Global Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value by Type (2021-2032)

5.3 Global Magnesium(Mg)-based Hydrogen Storage Containers Average Price by Type (2021-2032)

## 6 MARKET SEGMENT BY APPLICATION

6.1 Global Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Application (2021-2032)

6.2 Global Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value by Application (2021-2032)

6.3 Global Magnesium(Mg)-based Hydrogen Storage Containers Average Price by Application (2021-2032)

## **7 NORTH AMERICA**

7.1 North America Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Type (2021-2032)

7.2 North America Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Application (2021-2032)

7.3 North America Magnesium(Mg)-based Hydrogen Storage Containers Market Size by Country

7.3.1 North America Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Country (2021-2032)

7.3.2 North America Magnesium(Mg)-based Hydrogen Storage Containers 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(Mg)-based Hydrogen Storage Containers Sales Quantity by Type (2021-2032)

8.2 Europe Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Application (2021-2032)

8.3 Europe Magnesium(Mg)-based Hydrogen Storage Containers Market Size by Country

8.3.1 Europe Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Country (2021-2032)

8.3.2 Europe Magnesium(Mg)-based Hydrogen Storage Containers 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(Mg)-based Hydrogen Storage Containers Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Magnesium(Mg)-based Hydrogen Storage Containers Market Size by Region

9.3.1 Asia-Pacific Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Magnesium(Mg)-based Hydrogen Storage Containers 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(Mg)-based Hydrogen Storage Containers Sales Quantity by Type (2021-2032)

10.2 South America Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Application (2021-2032)

10.3 South America Magnesium(Mg)-based Hydrogen Storage Containers Market Size by Country

10.3.1 South America Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Country (2021-2032)

10.3.2 South America Magnesium(Mg)-based Hydrogen Storage Containers 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(Mg)-based Hydrogen Storage Containers Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Magnesium(Mg)-based Hydrogen Storage Containers Sales

Quantity by Application (2021-2032)

11.3 Middle East & Africa Magnesium(Mg)-based Hydrogen Storage Containers Market Size by Country

11.3.1 Middle East & Africa Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Magnesium(Mg)-based Hydrogen Storage Containers 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(Mg)-based Hydrogen Storage Containers Market Drivers

12.2 Magnesium(Mg)-based Hydrogen Storage Containers Market Restraints

12.3 Magnesium(Mg)-based Hydrogen Storage Containers 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(Mg)-based Hydrogen Storage Containers and Key Manufacturers

13.2 Manufacturing Costs Percentage of Magnesium(Mg)-based Hydrogen Storage Containers

13.3 Magnesium(Mg)-based Hydrogen Storage Containers 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(Mg)-based Hydrogen Storage Containers Typical Distributors

14.3 Magnesium(Mg)-based Hydrogen Storage Containers 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(Mg)-based Hydrogen Storage Containers Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 2. Global Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value by Temperature, (USD Million), 2021 & 2025 & 2032
- Table 3. Global Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 4. McPhy Energy Basic Information, Manufacturing Base and Competitors
- Table 5. McPhy Energy Major Business
- Table 6. McPhy Energy Magnesium(Mg)-based Hydrogen Storage Containers Product and Services
- Table 7. McPhy Energy Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 8. McPhy Energy Recent Developments/Updates
- Table 9. Hyto Energy Basic Information, Manufacturing Base and Competitors
- Table 10. Hyto Energy Major Business
- Table 11. Hyto Energy Magnesium(Mg)-based Hydrogen Storage Containers Product and Services
- Table 12. Hyto Energy Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 13. Hyto Energy Recent Developments/Updates
- Table 14. Shanghai Hydrexia Basic Information, Manufacturing Base and Competitors
- Table 15. Shanghai Hydrexia Major Business
- Table 16. Shanghai Hydrexia Magnesium(Mg)-based Hydrogen Storage Containers Product and Services
- Table 17. Shanghai Hydrexia Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 18. Shanghai Hydrexia Recent Developments/Updates
- Table 19. Global Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Manufacturer (2021-2026) & (Units)
- Table 20. Global Magnesium(Mg)-based Hydrogen Storage Containers Revenue by Manufacturer (2021-2026) & (USD Million)
- Table 21. Global Magnesium(Mg)-based Hydrogen Storage Containers Average Price

by Manufacturer (2021-2026) & (K US\$/Unit)

Table 22. Market Position of Manufacturers in Magnesium(Mg)-based Hydrogen Storage Containers, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 23. Head Office and Magnesium(Mg)-based Hydrogen Storage Containers Production Site of Key Manufacturer

Table 24. Magnesium(Mg)-based Hydrogen Storage Containers Market: Company Product Type Footprint

Table 25. Magnesium(Mg)-based Hydrogen Storage Containers Market: Company Product Application Footprint

Table 26. Magnesium(Mg)-based Hydrogen Storage Containers New Market Entrants and Barriers to Market Entry

Table 27. Magnesium(Mg)-based Hydrogen Storage Containers Mergers, Acquisition, Agreements, and Collaborations

Table 28. Global Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 29. Global Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Region (2021-2026) & (Units)

Table 30. Global Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Region (2027-2032) & (Units)

Table 31. Global Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value by Region (2021-2026) & (USD Million)

Table 32. Global Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value by Region (2027-2032) & (USD Million)

Table 33. Global Magnesium(Mg)-based Hydrogen Storage Containers Average Price by Region (2021-2026) & (K US\$/Unit)

Table 34. Global Magnesium(Mg)-based Hydrogen Storage Containers Average Price by Region (2027-2032) & (K US\$/Unit)

Table 35. Global Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Type (2021-2026) & (Units)

Table 36. Global Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Type (2027-2032) & (Units)

Table 37. Global Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value by Type (2021-2026) & (USD Million)

Table 38. Global Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value by Type (2027-2032) & (USD Million)

Table 39. Global Magnesium(Mg)-based Hydrogen Storage Containers Average Price by Type (2021-2026) & (K US\$/Unit)

Table 40. Global Magnesium(Mg)-based Hydrogen Storage Containers Average Price by Type (2027-2032) & (K US\$/Unit)

Table 41. Global Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Application (2021-2026) & (Units)

Table 42. Global Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Application (2027-2032) & (Units)

Table 43. Global Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value by Application (2021-2026) & (USD Million)

Table 44. Global Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value by Application (2027-2032) & (USD Million)

Table 45. Global Magnesium(Mg)-based Hydrogen Storage Containers Average Price by Application (2021-2026) & (K US\$/Unit)

Table 46. Global Magnesium(Mg)-based Hydrogen Storage Containers Average Price by Application (2027-2032) & (K US\$/Unit)

Table 47. North America Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Type (2021-2026) & (Units)

Table 48. North America Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Type (2027-2032) & (Units)

Table 49. North America Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Application (2021-2026) & (Units)

Table 50. North America Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Application (2027-2032) & (Units)

Table 51. North America Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Country (2021-2026) & (Units)

Table 52. North America Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Country (2027-2032) & (Units)

Table 53. North America Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value by Country (2021-2026) & (USD Million)

Table 54. North America Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value by Country (2027-2032) & (USD Million)

Table 55. Europe Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Type (2021-2026) & (Units)

Table 56. Europe Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Type (2027-2032) & (Units)

Table 57. Europe Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Application (2021-2026) & (Units)

Table 58. Europe Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Application (2027-2032) & (Units)

Table 59. Europe Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Country (2021-2026) & (Units)

Table 60. Europe Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity

by Country (2027-2032) & (Units)

Table 61. Europe Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value by Country (2021-2026) & (USD Million)

Table 62. Europe Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value by Country (2027-2032) & (USD Million)

Table 63. Asia-Pacific Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Type (2021-2026) & (Units)

Table 64. Asia-Pacific Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Type (2027-2032) & (Units)

Table 65. Asia-Pacific Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Application (2021-2026) & (Units)

Table 66. Asia-Pacific Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Application (2027-2032) & (Units)

Table 67. Asia-Pacific Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Region (2021-2026) & (Units)

Table 68. Asia-Pacific Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Region (2027-2032) & (Units)

Table 69. Asia-Pacific Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value by Region (2021-2026) & (USD Million)

Table 70. Asia-Pacific Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value by Region (2027-2032) & (USD Million)

Table 71. South America Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Type (2021-2026) & (Units)

Table 72. South America Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Type (2027-2032) & (Units)

Table 73. South America Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Application (2021-2026) & (Units)

Table 74. South America Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Application (2027-2032) & (Units)

Table 75. South America Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Country (2021-2026) & (Units)

Table 76. South America Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Country (2027-2032) & (Units)

Table 77. South America Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value by Country (2021-2026) & (USD Million)

Table 78. South America Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value by Country (2027-2032) & (USD Million)

Table 79. Middle East & Africa Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Type (2021-2026) & (Units)

Table 80. Middle East & Africa Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Type (2027-2032) & (Units)

Table 81. Middle East & Africa Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Application (2021-2026) & (Units)

Table 82. Middle East & Africa Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Application (2027-2032) & (Units)

Table 83. Middle East & Africa Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Country (2021-2026) & (Units)

Table 84. Middle East & Africa Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity by Country (2027-2032) & (Units)

Table 85. Middle East & Africa Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value by Country (2021-2026) & (USD Million)

Table 86. Middle East & Africa Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value by Country (2027-2032) & (USD Million)

Table 87. Magnesium(Mg)-based Hydrogen Storage Containers Raw Material

Table 88. Key Manufacturers of Magnesium(Mg)-based Hydrogen Storage Containers Raw Materials

Table 89. Magnesium(Mg)-based Hydrogen Storage Containers Typical Distributors

Table 90. Magnesium(Mg)-based Hydrogen Storage Containers Typical Customers

## List Of Figures

### LIST OF FIGURES

- Figure 1. Magnesium(Mg)-based Hydrogen Storage Containers Picture
- Figure 2. Global Magnesium(Mg)-based Hydrogen Storage Containers Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Magnesium(Mg)-based Hydrogen Storage Containers Revenue Market Share by Type in 2025
- Figure 4. Single Hydride Tank System Examples
- Figure 5. Multi-tank Hydride Storage System Examples
- Figure 6. Global Magnesium(Mg)-based Hydrogen Storage Containers Revenue by Temperature, (USD Million), 2021 & 2025 & 2032
- Figure 7. Global Magnesium(Mg)-based Hydrogen Storage Containers Revenue Market Share by Temperature in 2025
- Figure 8. High-temperature Hydride Tank Examples
- Figure 9. Medium-temperature Hydride Tank Examples
- Figure 10. Low-temperature Hydride Tank Examples
- Figure 11. Global Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 12. Global Magnesium(Mg)-based Hydrogen Storage Containers Revenue Market Share by Application in 2025
- Figure 13. Hydrogen Storage & Transportation Trailer Examples
- Figure 14. Hydrogen-electric Energy Storage System Examples
- Figure 15. Global Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 16. Global Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 17. Global Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity (2021-2032) & (Units)
- Figure 18. Global Magnesium(Mg)-based Hydrogen Storage Containers Price (2021-2032) & (K US\$/Unit)
- Figure 19. Global Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity Market Share by Manufacturer in 2025
- Figure 20. Global Magnesium(Mg)-based Hydrogen Storage Containers Revenue Market Share by Manufacturer in 2025
- Figure 21. Producer Shipments of Magnesium(Mg)-based Hydrogen Storage Containers by Manufacturer Sales (\$MM) and Market Share (%): 2025
- Figure 22. Top 3 Magnesium(Mg)-based Hydrogen Storage Containers Manufacturer

(Revenue) Market Share in 2025

Figure 23. Top 6 Magnesium(Mg)-based Hydrogen Storage Containers Manufacturer (Revenue) Market Share in 2025

Figure 24. Global Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity Market Share by Region (2021-2032)

Figure 25. Global Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value Market Share by Region (2021-2032)

Figure 26. North America Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value (2021-2032) & (USD Million)

Figure 27. Europe Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value (2021-2032) & (USD Million)

Figure 28. Asia-Pacific Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value (2021-2032) & (USD Million)

Figure 29. South America Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value (2021-2032) & (USD Million)

Figure 30. Middle East & Africa Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value (2021-2032) & (USD Million)

Figure 31. Global Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity Market Share by Type (2021-2032)

Figure 32. Global Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value Market Share by Type (2021-2032)

Figure 33. Global Magnesium(Mg)-based Hydrogen Storage Containers Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 34. Global Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity Market Share by Application (2021-2032)

Figure 35. Global Magnesium(Mg)-based Hydrogen Storage Containers Revenue Market Share by Application (2021-2032)

Figure 36. Global Magnesium(Mg)-based Hydrogen Storage Containers Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 37. North America Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity Market Share by Type (2021-2032)

Figure 38. North America Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity Market Share by Application (2021-2032)

Figure 39. North America Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity Market Share by Country (2021-2032)

Figure 40. North America Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value Market Share by Country (2021-2032)

Figure 41. United States Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value (2021-2032) & (USD Million)

Figure 42. Canada Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value (2021-2032) & (USD Million)

Figure 43. Mexico Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value (2021-2032) & (USD Million)

Figure 44. Europe Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity Market Share by Type (2021-2032)

Figure 45. Europe Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity Market Share by Application (2021-2032)

Figure 46. Europe Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity Market Share by Country (2021-2032)

Figure 47. Europe Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value Market Share by Country (2021-2032)

Figure 48. Germany Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value (2021-2032) & (USD Million)

Figure 49. France Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value (2021-2032) & (USD Million)

Figure 50. United Kingdom Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value (2021-2032) & (USD Million)

Figure 51. Russia Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value (2021-2032) & (USD Million)

Figure 52. Italy Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value (2021-2032) & (USD Million)

Figure 53. Asia-Pacific Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity Market Share by Type (2021-2032)

Figure 54. Asia-Pacific Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity Market Share by Application (2021-2032)

Figure 55. Asia-Pacific Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity Market Share by Region (2021-2032)

Figure 56. Asia-Pacific Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value Market Share by Region (2021-2032)

Figure 57. China Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value (2021-2032) & (USD Million)

Figure 58. Japan Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value (2021-2032) & (USD Million)

Figure 59. South Korea Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value (2021-2032) & (USD Million)

Figure 60. India Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value (2021-2032) & (USD Million)

Figure 61. Southeast Asia Magnesium(Mg)-based Hydrogen Storage Containers

Consumption Value (2021-2032) & (USD Million)

Figure 62. Australia Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value (2021-2032) & (USD Million)

Figure 63. South America Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity Market Share by Type (2021-2032)

Figure 64. South America Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity Market Share by Application (2021-2032)

Figure 65. South America Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity Market Share by Country (2021-2032)

Figure 66. South America Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value Market Share by Country (2021-2032)

Figure 67. Brazil Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value (2021-2032) & (USD Million)

Figure 68. Argentina Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value (2021-2032) & (USD Million)

Figure 69. Middle East & Africa Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity Market Share by Type (2021-2032)

Figure 70. Middle East & Africa Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity Market Share by Application (2021-2032)

Figure 71. Middle East & Africa Magnesium(Mg)-based Hydrogen Storage Containers Sales Quantity Market Share by Country (2021-2032)

Figure 72. Middle East & Africa Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value Market Share by Country (2021-2032)

Figure 73. Turkey Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value (2021-2032) & (USD Million)

Figure 74. Egypt Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value (2021-2032) & (USD Million)

Figure 75. Saudi Arabia Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value (2021-2032) & (USD Million)

Figure 76. South Africa Magnesium(Mg)-based Hydrogen Storage Containers Consumption Value (2021-2032) & (USD Million)

Figure 77. Magnesium(Mg)-based Hydrogen Storage Containers Market Drivers

Figure 78. Magnesium(Mg)-based Hydrogen Storage Containers Market Restraints

Figure 79. Magnesium(Mg)-based Hydrogen Storage Containers Market Trends

Figure 80. Porters Five Forces Analysis

Figure 81. Manufacturing Cost Structure Analysis of Magnesium(Mg)-based Hydrogen Storage Containers in 2025

Figure 82. Manufacturing Process Analysis of Magnesium(Mg)-based Hydrogen Storage Containers

Figure 83. Magnesium(Mg)-based Hydrogen Storage Containers Industrial Chain

Figure 84. Sales Channel: Direct to End-User vs Distributors

Figure 85. Direct Channel Pros & Cons

Figure 86. Indirect Channel Pros & Cons

Figure 87. Methodology

Figure 88. Research Process and Data Source

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