

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

<https://marketpublishers.com/r/GC7036C2E3E6EN.html>

Date: May 2026

Pages: 122

Price: US\$ 3,480.00 (Single User License)

ID: GC7036C2E3E6EN

Abstracts

According to our (Global Info Research) latest study, the global Metal Hydride Hydrogen Storage market size was valued at US\$ 617 million in 2025 and is forecast to a readjusted size of US\$ 914 million by 2032 with a CAGR of 5.7% during review period.

Metal hydride hydrogen storage is a hydrogen storage technology that utilizes the reversible chemical reaction between hydrogen and certain metals or alloys to form metal hydrides. Under appropriate temperature and pressure conditions, hydrogen molecules dissociate into atoms on the metal surface and diffuse into the crystal lattice to form stable hydrides. When heated or depressurized, the hydrogen can be released again, enabling a reversible hydrogen storage and release process.

Typical hydrogen storage materials include rare-earth-based alloys (AB₂ type), titanium- or zirconium-based alloys (AB₂ type), magnesium-based alloys (MgH₂ systems), and complex hydride materials. Key technologies involve alloy composition design, hydrogen absorption and desorption kinetics optimization, powder structural stabilization, cycle durability improvement, and thermal management and sealing design of hydrogen storage systems.

Upstream suppliers mainly include rare-earth metals, magnesium, titanium, and other alloy material providers, as well as powder metallurgy and material processing companies. Downstream applications include hydrogen storage systems for fuel cells, hydrogen energy storage and transportation equipment, distributed energy systems, and research hydrogen storage devices. The overall industry gross margin generally ranges from 30% to 55%, positioning it within the hydrogen energy storage and transportation technology segment.

Global hydrogen storage capacity in metal hydrides is projected to reach 112 tons in 2025, with an average price of \$5,350 per kilogram.

This report is a detailed and comprehensive analysis for global Metal Hydride 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 Metal Hydride Hydrogen Storage market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Metal Hydride 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 Metal Hydride 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 Metal Hydride 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 Metal Hydride 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 Metal Hydride 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 GKN Hydrogen, GRZ Technologies, Hydrexia, Hensoldt Nexeya, MetHydor, Japan Steel Works, Hydrogen Components, Ergenics, Horizon Fuel Cell Technologies, VET Energy, etc.

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

Market Segmentation

Metal Hydride 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

AB?-Type Hydrogen Storage Alloy

AB?-Type Hydrogen Storage Alloy

Magnesium-Based Hydrogen Storage Material

Complex Hydride Material

Market segment by Storage Condition

Low-Temperature Low-Pressure Type

Medium-Temperature Medium-Pressure Type

High-Temperature Hydrogen Storage Type

Market segment by System Form

Powder-Based Hydrogen Storage System

Modular Hydrogen Storage Tank

Stationary Hydrogen Storage Device

Market segment by Application

Hydrogen Fuel Cell Systems

Hydrogen Storage and Transportation Equipment

Distributed Energy Systems

Scientific Research and Experimental Systems

Others

Major players covered

GKN Hydrogen

GRZ Technologies

Hydrexia

Hensoldt Nexeya

MetHydor

Japan Steel Works

Hydrogen Components

Ergenics

Horizon Fuel Cell Technologies

VET Energy

Rubri Energy

H2planet

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

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

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

Chapter 4, the Metal Hydride 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 Metal Hydride 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 Metal Hydride Hydrogen Storage.

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

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