

Global Metal Hydride Hydrogen Storage Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G41B5B4D10FAEN.html>

Date: May 2026

Pages: 127

Price: US\$ 4,480.00 (Single User License)

ID: G41B5B4D10FAEN

Abstracts

The global Metal Hydride Hydrogen Storage market size is expected to reach \$ 914 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

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 studies the global Metal Hydride Hydrogen Storage production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Metal Hydride Hydrogen Storage and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Metal Hydride Hydrogen Storage that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Metal Hydride Hydrogen Storage total production and demand, 2021-2032, (Tons)

Global Metal Hydride Hydrogen Storage total production value, 2021-2032, (USD Million)

Global Metal Hydride Hydrogen Storage production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Metal Hydride Hydrogen Storage consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Metal Hydride Hydrogen Storage domestic production, consumption, key domestic manufacturers and share

Global Metal Hydride Hydrogen Storage production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Metal Hydride Hydrogen Storage production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Metal Hydride Hydrogen Storage production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Metal Hydride Hydrogen Storage market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Metal Hydride Hydrogen Storage market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Metal Hydride Hydrogen Storage Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Metal Hydride Hydrogen Storage Market, Segmentation by Type:

AB²-Type Hydrogen Storage Alloy

AB²-Type Hydrogen Storage Alloy

Magnesium-Based Hydrogen Storage Material

Complex Hydride Material

Global Metal Hydride Hydrogen Storage Market, Segmentation by Storage Condition:

Low-Temperature Low-Pressure Type

Medium-Temperature Medium-Pressure Type

High-Temperature Hydrogen Storage Type

Global Metal Hydride Hydrogen Storage Market, Segmentation by System Form:

Powder-Based Hydrogen Storage System

Modular Hydrogen Storage Tank

Stationary Hydrogen Storage Device

Global Metal Hydride Hydrogen Storage Market, Segmentation by Application:

Hydrogen Fuel Cell Systems

Hydrogen Storage and Transportation Equipment

Distributed Energy Systems

Scientific Research and Experimental Systems

Others

Companies Profiled:

GKN Hydrogen

GRZ Technologies

Hydrexia

Hensoldt Nexeya

MetHydor

Japan Steel Works

Hydrogen Components

Ergenics

Horizon Fuel Cell Technologies

VET Energy

Rubri Energy

H2planet

Key Questions Answered:

1. How big is the global Metal Hydride Hydrogen Storage market?
2. What is the demand of the global Metal Hydride Hydrogen Storage market?
3. What is the year over year growth of the global Metal Hydride Hydrogen Storage market?
4. What is the production and production value of the global Metal Hydride Hydrogen Storage market?
5. Who are the key producers in the global Metal Hydride Hydrogen Storage market?
6. What are the growth factors driving the market demand?

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