

# Global Hydrogen Storage Alloy Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Hydrogen Storage Alloy market size is expected to reach \$ 474 million by 2032, rising at a market growth of 6.6% CAGR during the forecast period (2026-2032).

Hydrogen Storage Alloy (HSA) is a type of alloy that can absorb and release hydrogen gas reversibly. It works by forming a metal hydride, a solid-state compound, when hydrogen is absorbed. This process allows for the safe and efficient storage of hydrogen, a crucial element in clean energy technologies. HSAs are particularly useful in applications like fuel cell vehicles and portable energy devices.

Hydrogen Storage Alloy has wide range of applications, such as Battery Industry, Energy Storage Industry. Battery Industry was the most widely used applications which took up about 88.2% of the global total market. However, in recent years, more and more solid-state hydrogen storage solutions have begun to use hydrogen storage alloys because the application of the hydrogen storage industry will grow faster in the next few years.

China and Japan are the two largest regions of Hydrogen Storage Alloy in the world in the past few years and it will keep increasing in the next few years. This two regions took up about 92.1% of the global market, while China and Japan were about 60.5%, 31.6%. There are currently more than 20 companies in the Chinese market engaged in the production of hydrogen storage alloys, with an overall production capacity of nearly 40,000 tons. However, the capacity utilization rate is not high. Currently, China's hydrogen storage alloy output is less than 15,000 tons.

The Hydrogen Storage Alloy market is relatively fragmented. Santoku, Japan Metals & Chemicals, XTC New Energy, China Northern Rare Earth, Jiangxi Tungsten Holding,

etc. are the key suppliers in the global Hydrogen Storage Alloy market. CR5 took up about 59% of the global market.

This report studies the global Hydrogen Storage Alloy production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Hydrogen Storage Alloy 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 Hydrogen Storage Alloy that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Hydrogen Storage Alloy total production and demand, 2021-2032, (K MT)

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

Global Hydrogen Storage Alloy production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K MT), (based on production site)

Global Hydrogen Storage Alloy consumption by region & country, CAGR, 2021-2032 & (K MT)

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

Global Hydrogen Storage Alloy production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K MT)

Global Hydrogen Storage Alloy production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

Global Hydrogen Storage Alloy production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

This report profiles key players in the global Hydrogen Storage Alloy 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 Santoku, American Elements, Nippon Denko, Mitsui-Kinzoku, Advanced Refractory Metals, Japan Metals & Chemicals, Zhongke Xueda New Energy Technology, Shenjiang Technology, Whole Win, AE&M JITRI, 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 Hydrogen Storage Alloy market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K MT) and average price (USD/MT) 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 Hydrogen Storage Alloy Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Hydrogen Storage Alloy Market, Segmentation by Type:

AB5 Type

AB2 Type

AB Type

A2B Type

Others

Global Hydrogen Storage Alloy Market, Segmentation by Application:

Battery Industry

Energy Storage Industry

Companies Profiled:

Santoku

American Elements

Nippon Denko

Mitsui-Kinzoku

Advanced Refractory Metals

Japan Metals & Chemicals

Zhongke Xueda New Energy Technology

Shenjiang Technology

Whole Win

AE&M JITRI

Xiamen Tungsten

Baotou FDK

China Northern Rare Earth

Jiangxi Tungsten

**Key Questions Answered:**

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

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