

Global Hydrogen Storage Alloy Market Growth 2025-2031

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Abstracts

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The global Hydrogen Storage Alloy market size is predicted to grow from US\$ 289 million in 2025 to US\$ 434 million in 2031; it is expected to grow at a CAGR of 7.1% from 2025 to 2031.

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.

LP Information, Inc. (LPI) ' newest research report, the “Hydrogen Storage Alloy Industry Forecast” looks at past sales and reviews total world Hydrogen Storage Alloy sales in 2024, providing a comprehensive analysis by region and market sector of projected Hydrogen Storage Alloy sales for 2025 through 2031. With Hydrogen Storage Alloy sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Hydrogen Storage Alloy industry.

This Insight Report provides a comprehensive analysis of the global Hydrogen Storage Alloy landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Hydrogen Storage Alloy portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Hydrogen Storage Alloy market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Hydrogen Storage Alloy and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Hydrogen Storage Alloy.

This report presents a comprehensive overview, market shares, and growth opportunities of Hydrogen Storage Alloy market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

AB5 Type

AB2 Type

AB Type

A2B Type

Others

Segmentation by Application:

Battery Industry

Energy Storage Industry

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Hydrogen Storage Alloy market?

What factors are driving Hydrogen Storage Alloy market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Hydrogen Storage Alloy market opportunities vary by end market size?

How does Hydrogen Storage Alloy break out by Type, by Application?

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