

# Global Hydrogen Storage Alloy Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global Hydrogen Storage Alloy market size will reach 328.56 Million USD in 2025 and is projected to reach 508.57 Million USD by 2032, with a CAGR of 6.44% (2025-2032). Notably, the China Hydrogen Storage Alloy market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

Hydrogen storage alloy is a type of metal alloy capable of reversibly absorbing and releasing hydrogen gas, making it a key material in rechargeable nickel-metal hydride (NiMH) batteries and hydrogen fuel storage systems. These alloys, often composed of rare earth or transition metals such as lanthanum, nickel, cobalt, or titanium, form metal hydrides when exposed to hydrogen under certain pressure and temperature conditions. Their ability to store hydrogen in solid form enhances safety and energy density compared to gaseous or liquid hydrogen storage methods. Hydrogen storage alloys play a critical role in clean energy technologies, offering reliable, efficient, and compact solutions for energy storage and fuel cell applications.

The major global manufacturers of Hydrogen Storage Alloy 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, Xiamen Tungsten, Baotou FDK, China Northern Rare Earth, Jiangxi Tungsten, etc. The global players competition landscape in this report is divided into

three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Hydrogen Storage Alloy. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Hydrogen Storage Alloy market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Hydrogen Storage Alloy market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Hydrogen Storage Alloy industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Hydrogen Storage Alloy 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

Xiamen Tungsten

Baotou FDK

China Northern Rare Earth

Jiangxi Tungsten

Hydrogen Storage Alloy Product Segment Include:

AB5 Type

AB2 Type

AB Type

A2B Type

Others

Hydrogen Storage Alloy Product Application Include:

Battery Industry

## Energy Storage Industry

### **Chapter Scope**

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