

Global Hydrogen Storage Alloy Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Hydrogen Storage Alloy market size was valued at US\$ 286 million in 2024 and is forecast to a readjusted size of USD 446 million by 2031 with a CAGR of 6.6% during review period.

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 is a detailed and comprehensive analysis for global Hydrogen Storage Alloy 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 Hydrogen Storage Alloy market size and forecasts, in consumption value (\$ Million), sales quantity (K MT), and average selling prices (USD/MT), 2020-2031

Global Hydrogen Storage Alloy market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K MT), and average selling prices (USD/MT), 2020-2031

Global Hydrogen Storage Alloy market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K MT), and average selling prices (USD/MT), 2020-2031

Global Hydrogen Storage Alloy market shares of main players, shipments in revenue (\$ Million), sales quantity (K MT), and ASP (USD/MT), 2020-2025

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 Hydrogen Storage Alloy

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 Hydrogen Storage Alloy 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 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.

Market Segmentation

Hydrogen Storage Alloy market is split by Type and by Application. For the period 2020-2031, 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

AB5 Type

AB2 Type

AB Type

A2B Type

Others

Market segment by Application

Battery Industry

Energy Storage Industry

Major players covered

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

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

Chapter 2, to profile the top manufacturers of Hydrogen Storage Alloy, with price, sales quantity, revenue, and global market share of Hydrogen Storage Alloy from 2020 to 2025.

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

Chapter 4, the Hydrogen Storage Alloy breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Hydrogen Storage Alloy market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Hydrogen Storage Alloy.

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

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