

Global Vanadium-Based Binary Alloy Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Vanadium-Based Binary Alloy market size was valued at US\$ 2304 million in 2025 and is forecast to a readjusted size of US\$ 3283 million by 2032 with a CAGR of 5.1% during review period.

Vanadium-based binary alloys refer to binary alloys or alloying additives formed with vanadium (V) as one of the main constituent elements and another metallic or non-metallic element. Common types include ferrovanadium alloys, vanadium-aluminum alloys, vanadium-titanium alloys, vanadium-chromium alloys, vanadium-nickel alloys, and vanadium-molybdenum alloys. These alloys are mainly used to introduce vanadium into steel, titanium alloys, high-temperature alloys, and special alloys to improve the strength, toughness, wear resistance, heat resistance, fatigue resistance, and structural stability of the materials. Ferrovanadium and vanadium-nitrogen alloys are mainly used in steel microalloying, vanadium-aluminum alloys are mainly used in titanium alloys and aerospace materials, while other vanadium-based binary alloys are mostly used in high-temperature, corrosion-resistant, hydrogen storage, nuclear industry, and special functional materials fields, representing an important alloy product for the high-value utilization of vanadium resources. Sales volume in 2025 was approximately 180,000 tons.

This report is a detailed and comprehensive analysis for global Vanadium-Based Binary 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 Vanadium-Based Binary Alloy market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Vanadium-Based Binary Alloy market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Vanadium-Based Binary Alloy market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Vanadium-Based Binary Alloy market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/kg), 2021-2026

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 Vanadium-Based Binary 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 Vanadium-Based Binary 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 AMG, BaoTi Group, Kymera International, Avon Metals, Pangang Group Vanadium & Titanium Resources, Jinzhou Aohan Metal, Chengde Tianda Vanadium Industry, Lizhong Sitong Light Alloys, Baoji Jiacheng Rare Metal Materials, Dalian BHN Special Materials, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Market Segmentation

Vanadium-Based Binary Alloy market is split by Type and by Application. For the period 2021-2032, 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

Vanadium-Nitrogen Alloys

Vanadium-Aluminum Alloys

Ferrovanadium Alloys

Others

Market segment by Process

Smelting Method

Thermothermal Reduction Method

Powder Metallurgy Method

Market segment by Form

Shadow

Blocky

Granular

Others

Market segment by Application

Steel

Aerospace

Military

Energy Equipment

Other

Major players covered

AMG

BaoTi Group

Kymera International

Avon Metals

Pangang Group Vanadium & Titanium Resources

Jinzhou Aohan Metal

Chengde Tianda Vanadium Industry

Lizhong Sitong Light Alloys

Baoji Jiacheng Rare Metal Materials

Dalian BHN Special Materials

ZS Advanced Materials

Baoji Chenyan Metal Materials

HBIS Chengsteel

Bushveld Minerals

Chengde Jianlong

Zhongxin New Materials

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 Vanadium-Based Binary Alloy product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Vanadium-Based Binary Alloy, with price, sales quantity, revenue, and global market share of Vanadium-Based Binary Alloy from 2021 to 2026.

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

Chapter 4, the Vanadium-Based Binary Alloy breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Vanadium-Based Binary Alloy market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Vanadium-Based Binary Alloy.

Chapter 14 and 15, to describe Vanadium-Based Binary Alloy sales channel, distributors, customers, research findings and conclusion.

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