

Global Vanadium-Based Binary Alloy Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Vanadium-Based Binary Alloy market size is expected to reach \$ 3283 million by 2032, rising at a market growth of 5.1% CAGR during the forecast period (2026-2032).

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 studies the global Vanadium-Based Binary Alloy production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Vanadium-Based Binary 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 Vanadium-Based Binary Alloy that

contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Vanadium-Based Binary Alloy total production and demand, 2021-2032, (Tons)

Global Vanadium-Based Binary Alloy total production value, 2021-2032, (USD Million)

Global Vanadium-Based Binary Alloy production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Vanadium-Based Binary Alloy consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Vanadium-Based Binary Alloy domestic production, consumption, key domestic manufacturers and share

Global Vanadium-Based Binary Alloy production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Vanadium-Based Binary Alloy production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Vanadium-Based Binary Alloy production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Vanadium-Based Binary 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Vanadium-Based Binary Alloy market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) 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 Vanadium-Based Binary Alloy Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Vanadium-Based Binary Alloy Market, Segmentation by Type:

Vanadium-Nitrogen Alloys

Vanadium-Aluminum Alloys

Ferrovandium Alloys

Others

Global Vanadium-Based Binary Alloy Market, Segmentation by Process:

Smelting Method

Thermothermal Reduction Method

Powder Metallurgy Method

Global Vanadium-Based Binary Alloy Market, Segmentation by Form:

Shadow

Blocky

Granular

Others

Global Vanadium-Based Binary Alloy Market, Segmentation by Application:

Steel

Aerospace

Military

Energy Equipment

Other

Companies Profiled:

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

Key Questions Answered:

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

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