

Global Vanadium Aluminum Master Alloy Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GDFEABA68A80EN.html>

Date: July 2026

Pages: 116

Price: US\$ 4,480.00 (Single User License)

ID: GDFEABA68A80EN

Abstracts

The global Vanadium Aluminum Master Alloy market size is expected to reach \$ 326 million by 2032, rising at a market growth of 8.0% CAGR during the forecast period (2026-2032).

Vanadium-aluminum master alloys are intermediate alloy materials with vanadium and aluminum as their main components. They are commonly used as important additives in the production of titanium alloys, special steels, and high-temperature alloys. Their primary function is to introduce vanadium into the alloy system, thereby improving the material's strength, heat resistance, fatigue resistance, and structural stability.

Aluminum acts as a carrier, facilitating the uniform addition and absorption of vanadium during the smelting process. Vanadium-aluminum alloys are widely used in aerospace, shipbuilding, chemical equipment, energy equipment, and high-end manufacturing, playing a particularly important role in titanium alloy production. They are one of the key functional raw materials for improving the overall performance of titanium alloys and controlling their composition. Sales in 2025 were approximately 9,033.3 tons.

In recent years, with the continuous development of the global aerospace, high-end equipment, shipbuilding, and energy industries, the market demand for vanadium-aluminum alloys, as an important intermediate alloy material, has maintained steady growth. Vanadium-aluminum alloys are mainly composed of vanadium and aluminum and are commonly used in the production of titanium alloys, high-temperature alloys, and special metal materials, serving to add vanadium, improve alloy microstructure, and enhance the overall performance of the materials. Because vanadium can improve the strength, heat resistance, fatigue resistance, and structural stability of titanium alloys, vanadium-aluminum alloys hold an irreplaceable and important position in the field of aerospace titanium alloys.

From the perspective of demand structure, titanium alloys are the most important downstream application area for vanadium-aluminum alloys. With the increasing demand for lightweight, high-strength, and high-temperature resistant materials in commercial aircraft, military aircraft, aero engines, spacecraft, and high-end structural components, the consumption of titanium alloys continues to grow, driving the steady expansion of the vanadium-aluminum alloy market. Especially in the aerospace field, titanium alloys are widely used in fuselage structural components, engine parts, fasteners, and load-bearing components, placing high demands on the compositional stability, impurity control, and batch consistency of intermediate alloys. In addition, the development of shipbuilding, chemical equipment, energy equipment, and medical implant materials has also provided more application opportunities for vanadium-aluminum alloys.

In terms of product structure, vanadium-aluminum alloys can be subdivided according to vanadium content, product form, and purity grade. Medium-to-high vanadium content vanadium-aluminum alloys are the market mainstream, often supplied in block or granular form. Block products are suitable for conventional smelting additions, while granular products offer better feeding convenience and melting uniformity. With the increasing demand for high-end titanium alloy materials, the proportion of high-purity, low-oxygen, low-nitrogen, and low-iron-silicon impurity vanadium-aluminum alloy products is gradually increasing.

In terms of the industry chain, upstream suppliers include vanadium pentoxide, metallic vanadium, aluminum ingots, and related smelting auxiliary material suppliers; midstream are vanadium-aluminum alloy producers; and downstream covers titanium alloy plants, aerospace material companies, high-temperature alloy companies, and special metal processing companies. The industry's technical barriers mainly lie in composition control, smelting processes, impurity management, product uniformity, and quality stability. For aerospace and military customers, supplier certification cycles are lengthy, and product quality systems and stable delivery capabilities are key to competitiveness.

From a regional market perspective, China, the United States, Europe, Japan, and Russia are important global production and consumption regions for vanadium-aluminum alloys. Among them, China, leveraging its advantages in vanadium resources, titanium processing, and the aerospace materials industry chain, has experienced rapid market development. The European and American markets have stable demand in aerospace and high-end titanium alloy applications. Russia, Japan,

and other regions also possess strong technological foundations in titanium alloys and special metal materials. Overall, the global vanadium-aluminum alloy market exhibits a development pattern characterized by stable high-end demand, stringent supplier certification, and product upgrades towards higher purity and customization.

Looking ahead, the global vanadium-aluminum alloy market will be driven by three main factors: first, the continued growth in demand for titanium alloys from aerospace and high-end equipment manufacturing; second, the expanding applications of lightweight, high-strength, and high-temperature resistant materials; and third, the continuous upgrading of high-purity, low-impurity, and customized intermediate alloy technologies. Market growth is not only reflected in the expansion of demand but also in the increased added value of high-end products and the enhanced stability of the supply chain.

This report studies the global Vanadium Aluminum Master Alloy production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Vanadium Aluminum Master 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 Aluminum Master Alloy that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Vanadium Aluminum Master Alloy total production and demand, 2021-2032, (Tons)

Global Vanadium Aluminum Master Alloy total production value, 2021-2032, (USD Million)

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

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

U.S. VS China: Vanadium Aluminum Master Alloy domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Vanadium Aluminum Master 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 Aluminum Master 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 Aluminum Master Alloy Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Vanadium Aluminum Master Alloy Market, Segmentation by Type:

VAI55:45

VAI65:35

VAI85:15

Other

Global Vanadium Aluminum Master Alloy Market, Segmentation by Class:

General Purpose Class

Aerospace Grade

Global Vanadium Aluminum Master Alloy Market, Segmentation by Form:

Blocky

Granular

Global Vanadium Aluminum Master Alloy Market, Segmentation by Application:

Aerospace

Military Industry

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

Key Questions Answered:

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

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