

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

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Abstracts

The global Aluminum Vanadium (AlV) Master Alloy market size is expected to reach \$ 56.51 million by 2032, rising at a market growth of 3.9% CAGR during the forecast period (2026-2032).

Aluminum-Vanadium (AlV) master alloy is a binary master alloy pre-melted from aluminum (Al) and vanadium (V) in specific proportions. It serves primarily as an alloying additive or grain refiner, enabling precise control over the chemical composition and microstructure of end products by introducing high-melting-point vanadium into the molten metal in a form that facilitates easy dissolution.

Upstream inputs mainly include primary aluminum (ingots), vanadium pentoxide, ammonium metavanadate, ferrovanadium or vanadium-aluminum pre-alloys, aluminum powder, and fluoride or chloride fluxes. Low-vanadium AlV products typically prioritize stable vanadium content, the control of impurities such as Fe and Si, and dissolution rates; high-vanadium AlV products focus more on controlling impurities (oxygen, nitrogen, iron, silicon), compositional uniformity, and melt cleanliness. The midstream sector consists of AlV master alloy manufacturers who produce forms such as lumps and waffle ingots through processes including aluminothermic reduction, melting and alloying, refining, casting, and crushing or ingot molding. Downstream applications primarily span aluminum processing and aluminum alloy casting, where the alloy is used to enhance strength, heat resistance, recrystallization stability, and microstructural control.

In 2025, global sales volume is approximately 8,000 metric tons, the global average market price is around US\$5,300 per metric ton, and the gross profit margin for major industry players ranges from approximately 15% to 25%.

Aluminum-Vanadium (AlV) master alloys constitute a niche, specialized category of functional master alloys; demand stems primarily from the compositional adjustment of aluminum alloys, microstructural control of high-strength aluminum alloys, and the addition of vanadium during titanium alloy smelting. As demand grows in sectors such as aerospace, high-end equipment, lightweighting for new energy vehicles, and high-performance titanium alloys, requirements for AlV master alloys regarding high purity, low impurity levels, and compositional stability will continue to rise. With high-vanadium AlV products for titanium alloys, in particular, presenting higher technical barriers and greater added value. However, unlike master alloys such as Al-Ti-B or Al-Sr, AlV products do not enjoy mass, general-purpose demand; their market capacity is relatively limited, and they are constrained by factors such as price fluctuations in vanadium raw materials, lengthy downstream certification cycles, and the difficulty of controlling impurities during production.

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

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

Highlights and key features of the study

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

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

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

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

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

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

Global Aluminum Vanadium (AlV) Master Alloy production by Type, production, value,

CAGR, 2021-2032, (USD Million) & (Tons)

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

This report profiles key players in the global Aluminum Vanadium (AlV) 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 Aluminum, KBM Affilips, Aleastur, Avon Metals, Ceraflux, GfE, Kymera International, HBIS Group, Sichuan Lande High-Tech Industry, Hunan Zhongxin New Material Technology, 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 Aluminum Vanadium (AlV) 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\$/Ton) 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 Aluminum Vanadium (AlV) Master Alloy Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Aluminum Vanadium (AlV) Master Alloy Market, Segmentation by Type:

Low-Vanadium Type

High-Vanadium Type

Global Aluminum Vanadium (AlV) Master Alloy Market, Segmentation by Application Systems:

Aluminum Alloys

Titanium Alloys

Global Aluminum Vanadium (AlV) Master Alloy Market, Segmentation by Form:

Waffle Ingot

Ingot

Wire

Other

Global Aluminum Vanadium (AlV) Master Alloy Market, Segmentation by Application:

Aerospace

Defense and Military Industry

Automotive Industry

High-End Manufacturing

Others

Companies Profiled:

AMG Aluminum

KBM Affilips

Aleatur

Avon Metals

Ceraflux

GfE

Kymera International

HBIS Group

Sichuan Lande High-Tech Industry

Hunan Zhongxin New Material Technology

Key Questions Answered:

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

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