

Global Vanadium Carbide Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Vanadium Carbide market size is expected to reach \$ 646 million by 2032, rising at a market growth of 6.9% CAGR during the forecast period (2026-2032).

Vanadium Carbide is a hard refractory transition metal carbide composed of vanadium and carbon, known for its extremely high hardness, high melting point (about 2,810°C), excellent wear resistance, good thermal stability, and electrical conductivity. It is widely used as a grain growth inhibitor and strengthening additive in cemented carbides, high-speed steels, tool steels, cermets, wear-resistant coatings, additive manufacturing powders, and advanced ceramic composites. The supply chain of vanadium carbide begins with upstream raw materials including vanadium-bearing ores (such as vanadiferous titanomagnetite), recycled vanadium-containing materials, petroleum coke, graphite, or carbon black. Vanadium is extracted and refined into intermediates such as vanadium pentoxide (V_2O_5), ferrovanadium, or vanadium metal, which are then reacted with high-purity carbon through carbothermal reduction or direct carburization at high temperatures to produce vanadium carbide powder. The resulting material is milled, classified, and processed into different particle sizes and purity grades before being supplied to downstream manufacturers of cutting tools, powder metallurgy products, wear-resistant components, thermal spray coatings, aerospace materials, automotive parts, mining equipment, energy systems, and other high-performance industrial applications. In 2025, global Vanadium Carbide output was about 30,000 tons with 35,000 tons of capacity, average prices of USD 12,000-30,000 per ton, and gross margins around 34%.

This report studies the global Vanadium Carbide production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Vanadium Carbide total production and demand, 2021-2032, (Kilotons)

Global Vanadium Carbide total production value, 2021-2032, (USD Million)

Global Vanadium Carbide production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Vanadium Carbide consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Vanadium Carbide domestic production, consumption, key domestic manufacturers and share

Global Vanadium Carbide production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Vanadium Carbide production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Vanadium Carbide production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Vanadium Carbide 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 H.C. Starck (Germany), Treibacher (Austria), Nanografi (Turkey), Japan New Metals (Japan), Xi'an Function Material (China), Huawei Jingcheng Material (China), Zhuzhou Cemented Carbide (China), Youxinglian Nonferrous Metals (China), Luoyang Tongrun Nano Technology (China), Hunan Fushel Technology (China), 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 Carbide market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) 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 Vanadium Carbide Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Vanadium Carbide Market, Segmentation by Type:

Industrial Grade (95?98%)

High-Purity Grade (98?99.5%)

Ultra-High-Purity Grade (>99.5%)

Global Vanadium Carbide Market, Segmentation by Manufacturing Process:

Carbothermal Reduction

Direct Carburization

Mechanical Alloying

Plasma-Synthesized

Global Vanadium Carbide Market, Segmentation by Application:

Cutting Tool

High-Speed Steel

Cemented Carbide

Others

Companies Profiled:

H.C. Starck (Germany)

Treibacher (Austria)

Nanografi (Turkey)

Japan New Metals (Japan)

Xi'an Function Material (China)

Huawei Jingcheng Material (China)

Zhuzhou Cemented Carbide (China)

Youxinglian Nonferrous Metals (China)

Luoyang Tongrun Nano Technology (China)

Hunan Fushel Technology (China)

Key Questions Answered:

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

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