

Global Vanadium Carbide Market Growth 2026-2032

<https://marketpublishers.com/r/GC058DFB8F1FEN.html>

Date: October 2026

Pages: 94

Price: US\$ 3,660.00 (Single User License)

ID: GC058DFB8F1FEN

Abstracts

The global Vanadium Carbide market size is predicted to grow from US\$ 383 million in 2025 to US\$ 629 million in 2032; it is expected to grow at a CAGR of 7.4% from 2026 to 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%.

United States market for Vanadium Carbide is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Vanadium Carbide is estimated to increase from US\$ million in 2025

to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Vanadium Carbide is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Vanadium Carbide players cover H.C. Starck (Germany), Treibacher (Austria), Nanografi (Turkey), Japan New Metals (Japan), Xi'an Function Material (China), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Vanadium Carbide Industry Forecast" looks at past sales and reviews total world Vanadium Carbide sales in 2025, providing a comprehensive analysis by region and market sector of projected Vanadium Carbide sales for 2026 through 2032. With Vanadium Carbide sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Vanadium Carbide industry.

This Insight Report provides a comprehensive analysis of the global Vanadium Carbide landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Vanadium Carbide portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Vanadium Carbide market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Vanadium Carbide and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Vanadium Carbide.

This report presents a comprehensive overview, market shares, and growth opportunities of Vanadium Carbide market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Industrial Grade (95–98%)

High-Purity Grade (98–99.5%)

Ultra-High-Purity Grade (>99.5%)

Segmentation by Manufacturing Process:

Carbothermal Reduction

Direct Carburization

Mechanical Alloying

Plasma-Synthesized

Segmentation by Application:

Cutting Tool

High-Speed Steel

Cemented Carbide

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Vanadium Carbide market?

What factors are driving Vanadium Carbide market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Vanadium Carbide market opportunities vary by end market size?

How does Vanadium Carbide break out by Type, by Application?

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