

Global Nitride Vanadium for Steel Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G2CB5464805EEN.html>

Date: April 2026

Pages: 105

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

ID: G2CB5464805EEN

Abstracts

The global Nitride Vanadium for Steel market size is expected to reach \$ 1532 million by 2032, rising at a market growth of 4.1% CAGR during the forecast period (2026-2032).

In 2025, global Nitride Vanadium for Steel production reached approximately 63 k tons, with an average global market price of around US\$18 per kilogram. Nitride Vanadium for Steel is a crucial additive that significantly enhances the properties of steel. It is formed by the reaction of vanadium with nitrogen. When added to steel, nitride vanadium acts as a powerful grain refiner. It helps to break up the large grains in the steel microstructure, leading to a finer and more uniform grain structure. This, in turn, improves the strength and toughness of the steel. Moreover, it contributes to the precipitation hardening process. The fine vanadium nitride precipitates dispersed within the steel matrix increase the hardness and wear resistance of the steel.

The global market for nitride vanadium for steel is intrinsically linked to the iron and steel industry. Currently, market demand is primarily driven by global crude steel output, particularly in China. According to China's National Bureau of Statistics, the nation's crude steel production has remained at a high level in recent years, though growth has stabilized, providing a foundational platform for nitride vanadium demand. Regarding development trends, the steel industry's increasing requirements for material performance, with clear directions toward high strength and lightweighting, continually support the demand for nitride vanadium as an efficient microalloying additive. Concurrently, the rise of vanadium redox flow battery energy storage is creating a new application field for vanadium resources, which may long-term influence the industrial chain layout and raw material flow. Development opportunities stem from the upgrading of steel product mix. For instance, the promotion and application of higher-standard

rebar (e.g., HRB600) in China directly increases vanadium consumption per unit of steel, injecting structural growth momentum into the nitride vanadium market. Furthermore, infrastructure investment and advanced manufacturing development globally are expected to sustain demand for high-quality alloy steels. Key obstacles include the direct impact of the steel industry's own cyclical fluctuations on demand, cost control pressures from vanadium raw material price volatility, and potential competition from other microalloying technologies in certain applications. Overall, the nitride vanadium for steel market is transitioning from a phase driven by traditional scale to one driven by technological upgrades and demand from high-end applications.

This report studies the global Nitride Vanadium for Steel production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Nitride Vanadium for Steel total production and demand, 2021-2032, (Kilotons)

Global Nitride Vanadium for Steel total production value, 2021-2032, (USD Million)

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

Global Nitride Vanadium for Steel consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Nitride Vanadium for Steel domestic production, consumption, key domestic manufacturers and share

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

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This report profiles key players in the global Nitride Vanadium for Steel 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 Pangang, HBIS Chengsteel, Bushveld Minerals,

Chengde Jianlong, Zhongxin New Materials, Zhongjia Alloy, Shaanxi Huayin 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 Nitride Vanadium for Steel 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 Nitride Vanadium for Steel Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Nitride Vanadium for Steel Market, Segmentation by Type:

Nitrogen Content 12%

Nitrogen Content 16%

Global Nitride Vanadium for Steel Market, Segmentation by Carbon Content:

Carbon Content

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