

Global Nitride Vanadium for Steel Market Growth 2026-2032

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Abstracts

The global Nitride Vanadium for Steel market size is predicted to grow from US\$ 1109 million in 2025 to US\$ 1478 million in 2032; it is expected to grow at a CAGR of 4.4% from 2026 to 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.

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

This Insight Report provides a comprehensive analysis of the global Nitride Vanadium for Steel 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 Nitride Vanadium for Steel portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Nitride Vanadium for Steel market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Nitride Vanadium for Steel 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 Nitride Vanadium for Steel.

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

Segmentation by Type:

Nitrogen Content 12%

Nitrogen Content 16%

Segmentation by Carbon Content:

Carbon Content

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