

Global Vanadium-Nitrogen Market Growth 2026-2032

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Abstracts

The global Vanadium-Nitrogen 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 Vanadium-Nitrogen production reached approximately 63 k tons, with an average global market price of around US\$18 per kilogram. Vanadium-Nitrogen (VN) is an advanced alloying additive, often appearing as a dark, dense powder or lump, used in steelmaking to significantly enhance the strength, toughness, ductility, and thermal fatigue resistance of micro-alloyed steel. It serves as a high-performance, cost-effective replacement for traditional ferrovanadium.

The global vanadium?nitrogen alloy market is currently experiencing shifts in its supply?demand structure. In 2024, the overall vanadium industry faced a supply?excess situation, but demand is gradually extending from the traditional steel sector to the energy?storage field. According to the National Bureau of Statistics, domestic crude?steel output declined year?on?year, especially for rebar, which pressures vanadium?nitrogen consumption in steel. However, the substantial increase in installed capacity of all?vanadium redox flow battery projects has created a new demand growth point for vanadium. Regarding trends, demand within the steel industry is adjusting. Expected reduction in construction?steel demand may affect vanadium?nitrogen alloy consumption, but the mandatory conversion of the national rebar standard and subsequent quality?supervision efforts are likely to support demand. Meanwhile, national policies on market?oriented pricing for renewable?energy generation provide opportunities for technologies such as all?vanadium flow batteries in independent and user?side energy storage, indirectly driving upstream raw?material demand for vanadium?nitrogen alloys. Development opportunities mainly stem from the expansion of the energy?storage industry. Leading companies are actively expanding vanadium applications in energy storage and signing long?term supply agreements for

vanadium materials with strategic partners, reflecting confidence in the future of vanadium-based energy storage. Additionally, some enterprises are constructing new vanadium-nitrogen alloy production capacities, with process technology that has reached internationally advanced levels and holds national invention patents, indicating that the industry is enhancing competitiveness through innovation. Major obstacles include the ongoing impact of steel industry sentiment on vanadium demand and the downward pressure on vanadium-product prices due to supply-demand imbalances. Global macroeconomic headwinds may lead to sluggish infrastructure investment and crude steel production growth, thereby restraining short-term demand for vanadium-nitrogen alloys. Overall, the vanadium-nitrogen alloy market is in a critical phase of transitioning from reliance on the steel industry to diversified drivers, particularly energy storage.

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

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

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

This report presents a comprehensive overview, market shares, and growth opportunities of Vanadium-Nitrogen 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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