

# Global Vanadium-Nitrogen Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Vanadium-Nitrogen 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 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.

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

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

### **Highlights and key features of the study**

Global Vanadium-Nitrogen total production and demand, 2021-2032, (Tons)

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

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

Global Vanadium-Nitrogen consumption by region & country, CAGR, 2021-2032 & (Tons)

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

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

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

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

This report profiles key players in the global Vanadium-Nitrogen 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 Vanadium-Nitrogen market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Kg) 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-Nitrogen Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Vanadium-Nitrogen Market, Segmentation by Type:

Nitrogen Content 12%

Nitrogen Content 16%

### Global Vanadium-Nitrogen Market, Segmentation by Carbon Content:

Carbon Content

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