

# Global Vanadium-Nitrogen Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GDB57D4CFF60EN.html>

Date: April 2026

Pages: 100

Price: US\$ 3,480.00 (Single User License)

ID: GDB57D4CFF60EN

## Abstracts

According to our (Global Info Research) latest study, the global Vanadium-Nitrogen market size was valued at US\$ 1167 million in 2025 and is forecast to a readjusted size of US\$ 1532 million by 2032 with a CAGR of 4.1% during review period.

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 is a detailed and comprehensive analysis for global Vanadium-Nitrogen market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Vanadium-Nitrogen market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2021-2032

Global Vanadium-Nitrogen market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2021-2032

Global Vanadium-Nitrogen market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2021-2032

Global Vanadium-Nitrogen market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Kg), 2021-2026

## The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Vanadium-Nitrogen

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Vanadium-Nitrogen market based on the following parameters - company overview, sales quantity, revenue, 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.

## Market Segmentation

Vanadium-Nitrogen market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Nitrogen Content 12%

Nitrogen Content 16%

### Market segment by Carbon Content

Carbon Content

## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Vanadium-Nitrogen Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Nitrogen Content 12%

1.3.3 Nitrogen Content 16%

1.4 Market Analysis by Carbon Content

1.4.1 Overview: Global Vanadium-Nitrogen Consumption Value by Carbon Content: 2021 Versus 2025 Versus 2032

1.4.2 Carbon Content

## List Of Tables

### LIST OF TABLES

Table 1. Global Vanadium-Nitrogen Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Vanadium-Nitrogen Consumption Value by Carbon Content, (USD Million), 2021 & 2025 & 2032

Table 3. Global Vanadium-Nitrogen Consumption Value by Performance, (USD Million), 2021 & 2025 & 2032

Table 4. Global Vanadium-Nitrogen Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Pangang Basic Information, Manufacturing Base and Competitors

Table 6. Pangang Major Business

Table 7. Pangang Vanadium-Nitrogen Product and Services

Table 8. Pangang Vanadium-Nitrogen Sales Quantity (Tons), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Pangang Recent Developments/Updates

Table 10. HBIS Chengsteel Basic Information, Manufacturing Base and Competitors

Table 11. HBIS Chengsteel Major Business

Table 12. HBIS Chengsteel Vanadium-Nitrogen Product and Services

Table 13. HBIS Chengsteel Vanadium-Nitrogen Sales Quantity (Tons), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. HBIS Chengsteel Recent Developments/Updates

Table 15. Bushveld Minerals Basic Information, Manufacturing Base and Competitors

Table 16. Bushveld Minerals Major Business

Table 17. Bushveld Minerals Vanadium-Nitrogen Product and Services

Table 18. Bushveld Minerals Vanadium-Nitrogen Sales Quantity (Tons), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Bushveld Minerals Recent Developments/Updates

Table 20. Chengde Jianlong Basic Information, Manufacturing Base and Competitors

Table 21. Chengde Jianlong Major Business

Table 22. Chengde Jianlong Vanadium-Nitrogen Product and Services

Table 23. Chengde Jianlong Vanadium-Nitrogen Sales Quantity (Tons), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Chengde Jianlong Recent Developments/Updates

Table 25. Zhongxin New Materials Basic Information, Manufacturing Base and Competitors

Table 26. Zhongxin New Materials Major Business

- Table 27. Zhongxin New Materials Vanadium-Nitrogen Product and Services
- Table 28. Zhongxin New Materials Vanadium-Nitrogen Sales Quantity (Tons), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 29. Zhongxin New Materials Recent Developments/Updates
- Table 30. Zhongjia Alloy Basic Information, Manufacturing Base and Competitors
- Table 31. Zhongjia Alloy Major Business
- Table 32. Zhongjia Alloy Vanadium-Nitrogen Product and Services
- Table 33. Zhongjia Alloy Vanadium-Nitrogen Sales Quantity (Tons), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 34. Zhongjia Alloy Recent Developments/Updates
- Table 35. Shaanxi Huayin Technology Basic Information, Manufacturing Base and Competitors
- Table 36. Shaanxi Huayin Technology Major Business
- Table 37. Shaanxi Huayin Technology Vanadium-Nitrogen Product and Services
- Table 38. Shaanxi Huayin Technology Vanadium-Nitrogen Sales Quantity (Tons), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 39. Shaanxi Huayin Technology Recent Developments/Updates
- Table 40. Global Vanadium-Nitrogen Sales Quantity by Manufacturer (2021-2026) & (Tons)
- Table 41. Global Vanadium-Nitrogen Revenue by Manufacturer (2021-2026) & (USD Million)
- Table 42. Global Vanadium-Nitrogen Average Price by Manufacturer (2021-2026) & (US\$/Kg)
- Table 43. Market Position of Manufacturers in Vanadium-Nitrogen, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
- Table 44. Head Office and Vanadium-Nitrogen Production Site of Key Manufacturer
- Table 45. Vanadium-Nitrogen Market: Company Product Type Footprint
- Table 46. Vanadium-Nitrogen Market: Company Product Application Footprint
- Table 47. Vanadium-Nitrogen New Market Entrants and Barriers to Market Entry
- Table 48. Vanadium-Nitrogen Mergers, Acquisition, Agreements, and Collaborations
- Table 49. Global Vanadium-Nitrogen Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
- Table 50. Global Vanadium-Nitrogen Sales Quantity by Region (2021-2026) & (Tons)
- Table 51. Global Vanadium-Nitrogen Sales Quantity by Region (2027-2032) & (Tons)
- Table 52. Global Vanadium-Nitrogen Consumption Value by Region (2021-2026) & (USD Million)
- Table 53. Global Vanadium-Nitrogen Consumption Value by Region (2027-2032) & (USD Million)

- Table 54. Global Vanadium-Nitrogen Average Price by Region (2021-2026) & (US\$/Kg)
- Table 55. Global Vanadium-Nitrogen Average Price by Region (2027-2032) & (US\$/Kg)
- Table 56. Global Vanadium-Nitrogen Sales Quantity by Type (2021-2026) & (Tons)
- Table 57. Global Vanadium-Nitrogen Sales Quantity by Type (2027-2032) & (Tons)
- Table 58. Global Vanadium-Nitrogen Consumption Value by Type (2021-2026) & (USD Million)
- Table 59. Global Vanadium-Nitrogen Consumption Value by Type (2027-2032) & (USD Million)
- Table 60. Global Vanadium-Nitrogen Average Price by Type (2021-2026) & (US\$/Kg)
- Table 61. Global Vanadium-Nitrogen Average Price by Type (2027-2032) & (US\$/Kg)
- Table 62. Global Vanadium-Nitrogen Sales Quantity by Application (2021-2026) & (Tons)
- Table 63. Global Vanadium-Nitrogen Sales Quantity by Application (2027-2032) & (Tons)
- Table 64. Global Vanadium-Nitrogen Consumption Value by Application (2021-2026) & (USD Million)
- Table 65. Global Vanadium-Nitrogen Consumption Value by Application (2027-2032) & (USD Million)
- Table 66. Global Vanadium-Nitrogen Average Price by Application (2021-2026) & (US\$/Kg)
- Table 67. Global Vanadium-Nitrogen Average Price by Application (2027-2032) & (US\$/Kg)
- Table 68. North America Vanadium-Nitrogen Sales Quantity by Type (2021-2026) & (Tons)
- Table 69. North America Vanadium-Nitrogen Sales Quantity by Type (2027-2032) & (Tons)
- Table 70. North America Vanadium-Nitrogen Sales Quantity by Application (2021-2026) & (Tons)
- Table 71. North America Vanadium-Nitrogen Sales Quantity by Application (2027-2032) & (Tons)
- Table 72. North America Vanadium-Nitrogen Sales Quantity by Country (2021-2026) & (Tons)
- Table 73. North America Vanadium-Nitrogen Sales Quantity by Country (2027-2032) & (Tons)
- Table 74. North America Vanadium-Nitrogen Consumption Value by Country (2021-2026) & (USD Million)
- Table 75. North America Vanadium-Nitrogen Consumption Value by Country (2027-2032) & (USD Million)
- Table 76. Europe Vanadium-Nitrogen Sales Quantity by Type (2021-2026) & (Tons)

Table 77. Europe Vanadium-Nitrogen Sales Quantity by Type (2027-2032) & (Tons)

Table 78. Europe Vanadium-Nitrogen Sales Quantity by Application (2021-2026) & (Tons)

Table 79. Europe Vanadium-Nitrogen Sales Quantity by Application (2027-2032) & (Tons)

Table 80. Europe Vanadium-Nitrogen Sales Quantity by Country (2021-2026) & (Tons)

Table 81. Europe Vanadium-Nitrogen Sales Quantity by Country (2027-2032) & (Tons)

Table 82. Europe Vanadium-Nitrogen Consumption Value by Country (2021-2026) & (USD Million)

Table 83. Europe Vanadium-Nitrogen Consumption Value by Country (2027-2032) & (USD Million)

Table 84. Asia-Pacific Vanadium-Nitrogen Sales Quantity by Type (2021-2026) & (Tons)

Table 85. Asia-Pacific Vanadium-Nitrogen Sales Quantity by Type (2027-2032) & (Tons)

Table 86. Asia-Pacific Vanadium-Nitrogen Sales Quantity by Application (2021-2026) & (Tons)

Table 87. Asia-Pacific Vanadium-Nitrogen Sales Quantity by Application (2027-2032) & (Tons)

Table 88. Asia-Pacific Vanadium-Nitrogen Sales Quantity by Region (2021-2026) & (Tons)

Table 89. Asia-Pacific Vanadium-Nitrogen Sales Quantity by Region (2027-2032) & (Tons)

Table 90. Asia-Pacific Vanadium-Nitrogen Consumption Value by Region (2021-2026) & (USD Million)

Table 91. Asia-Pacific Vanadium-Nitrogen Consumption Value by Region (2027-2032) & (USD Million)

Table 92. South America Vanadium-Nitrogen Sales Quantity by Type (2021-2026) & (Tons)

Table 93. South America Vanadium-Nitrogen Sales Quantity by Type (2027-2032) & (Tons)

Table 94. South America Vanadium-Nitrogen Sales Quantity by Application (2021-2026) & (Tons)

Table 95. South America Vanadium-Nitrogen Sales Quantity by Application (2027-2032) & (Tons)

Table 96. South America Vanadium-Nitrogen Sales Quantity by Country (2021-2026) & (Tons)

Table 97. South America Vanadium-Nitrogen Sales Quantity by Country (2027-2032) & (Tons)

Table 98. South America Vanadium-Nitrogen Consumption Value by Country (2021-2026) & (USD Million)

Table 99. South America Vanadium-Nitrogen Consumption Value by Country (2027-2032) & (USD Million)

Table 100. Middle East & Africa Vanadium-Nitrogen Sales Quantity by Type (2021-2026) & (Tons)

Table 101. Middle East & Africa Vanadium-Nitrogen Sales Quantity by Type (2027-2032) & (Tons)

Table 102. Middle East & Africa Vanadium-Nitrogen Sales Quantity by Application (2021-2026) & (Tons)

Table 103. Middle East & Africa Vanadium-Nitrogen Sales Quantity by Application (2027-2032) & (Tons)

Table 104. Middle East & Africa Vanadium-Nitrogen Sales Quantity by Country (2021-2026) & (Tons)

Table 105. Middle East & Africa Vanadium-Nitrogen Sales Quantity by Country (2027-2032) & (Tons)

Table 106. Middle East & Africa Vanadium-Nitrogen Consumption Value by Country (2021-2026) & (USD Million)

Table 107. Middle East & Africa Vanadium-Nitrogen Consumption Value by Country (2027-2032) & (USD Million)

Table 108. Vanadium-Nitrogen Raw Material

Table 109. Key Manufacturers of Vanadium-Nitrogen Raw Materials

Table 110. Vanadium-Nitrogen Typical Distributors

Table 111. Vanadium-Nitrogen Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. Vanadium-Nitrogen Picture

Figure 2. Global Vanadium-Nitrogen Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Vanadium-Nitrogen Revenue Market Share by Type in 2025

Figure 4. Nitrogen Content 12% Examples

Figure 5. Nitrogen Content 16% Examples

Figure 6. Global Vanadium-Nitrogen Revenue by Carbon Content, (USD Million), 2021 & 2025 & 2032

Figure 7. Global Vanadium-Nitrogen Revenue Market Share by Carbon Content in 2025

Figure 8. Carbon Content

## I would like to order

Product name: Global Vanadium-Nitrogen Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

Product link: <https://marketpublishers.com/r/GDB57D4CFF60EN.html>

Price: US\$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GDB57D4CFF60EN.html>