

# Global Vanadium(III) Oxide Market Research Report 2026(Status and Outlook)

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## Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Vanadium(III) Oxide competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. Vanadium(III) oxide ( $V_2O_3$ ) is an inorganic oxide of vanadium in which vanadium is in the +3 oxidation state. It typically appears as a matte-black crystalline powder with corundum-type structure; under standard conditions it is insoluble in water and stable as a solid, though it readily oxidizes in air to higher vanadium oxides. The Vanadium(III) oxide industry chain begins upstream with mining vanadium-bearing ores or recovering vanadium from slags, fly ash or spent catalysts, followed by midstream processing where vanadium ore or residues are leached, refined to higher oxides ( $V_2O_5$ ) then reduced under hydrogen or CO to produce  $V_2O_3$  powder, and optionally further processed into pellets, passivated material or precursor for ferrovanadium or metal, and ends downstream with metallurgical alloy producers, battery-materials manufacturers, chemical catalyst users, ceramic/glass/coating producers, and final consumers in steel, energy, automotive, aerospace, chemical and advanced-materials industries. Current industry developments include expansion of ultra-pure vanadium oxide (including  $V_2O_3$ ) production facilities particularly in regions investing in grid-scale energy storage ? e.g., plants dedicated to producing vanadium electrolytes for redox flow batteries adjacent to oxide production sites ? upgrades of existing oxide-reduction plants for higher throughput, recycling-oriented installations converting steel slags, fly ash and spent catalysts into vanadium oxides, new pilot-scale facilities focused on battery-material grade vanadium compounds, and joint ventures between mining firms and battery or alloy producers to build vertically integrated supply lines for vanadium oxides and downstream ferrovanadium / battery electrolytes. 2024 Global Market sales Volume: 105,000 tons, Average Global Market Price: USD 998 per ton, Market Average

Gross Profit Margin: 20%. The global vanadium oxide market, which encompasses Vanadium(III) Oxide among other oxides. Traditional demand remains anchored in metallurgy: vanadium alloys and high-strength steels continue to consume the bulk of vanadium via ferrovanadium produced from oxides, owing to vanadium's proven benefits for strength, toughness, and wear resistance. At the same time, new demand vectors are emerging – energy storage (notably vanadium redox flow batteries), specialty chemicals, ceramics/coatings, and advanced materials – which increasingly rely on high-quality vanadium oxides including Vanadium(III) Oxide. Regionally, the largest share of vanadium oxide consumption lies in Asia-Pacific, driven by expanding infrastructure, steel production, and energy-storage deployment. North America and Europe are also significant markets, especially for high-purity oxide grades serving battery manufacturers, aerospace, and specialty alloy producers. Emerging markets in Africa, Latin America, and the Middle East present mid-term potential especially if mining, refining, or recycling capacity expands. Opportunities in the market stem from the global push for decarbonization, renewable energy storage, and electrification – vanadium-based batteries (including large-scale grid storage) promise long cycle life and scalability, driving demand for ultra-pure vanadium oxides. Additionally, growth in infrastructure and construction demands more high-strength rebar and alloyed steels, sustaining traditional oxide demand. Recycling of vanadium from slags, fly ash, and spent catalysts offers a sustainable supply path and potential cost advantage, especially as environmental regulations tighten and raw ore availability fluctuates. However, risks remain: vanadium supply is concentrated geographically, often tied to a few ore producers, and extraction/processing are energy- and cost-intensive. Price volatility of vanadium (oxide and metal) can deter downstream users from long-term commitments. Alternative materials and battery chemistries (e.g., lithium-ion, sodium-ion, other redox flow battery chemistries) compete with vanadium-based solutions, which may limit demand growth. Also, the synthesis of high-purity Vanadium(III) Oxide is technically challenging, requiring controlled reduction and inert atmospheres; this raises capital and operating costs.

The global Vanadium(III) Oxide market size was estimated at USD 105.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 3.70% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Vanadium(III) Oxide market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Vanadium(III) Oxide market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Vanadium(III) Oxide market.

### **Global Vanadium(III) Oxide Market: Market Segmentation Analysis**

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

### **Key Company**

Bushveld Vanadium  
Treibacher Industrie AG  
Largo Resources Ltd  
AMG Critical Materials

### **Market Segmentation (by Type)**

99%

### **Market Segmentation (by Application)**

Alloy Steel & Ferrovanadium

Catalysts

Battery

Electronic

Ceramics

Others

### **Geographic Segmentation**

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

### **Key Benefits of This Market Research:**

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Vanadium(III) Oxide Market

Overview of the regional outlook of the Vanadium(III) Oxide Market:

### **Customization of the Report**

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

### **Chapter Outline**

Chapter 1 mainly introduces the statistical scope of the report, market division

standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Vanadium(III) Oxide Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Vanadium(III) Oxide, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development

potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

### **Key Reasons to Buy this Report:**

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

### **Customization of the Report**

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team, who will ensure that your requirements are met.

## Contents

### **1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE**

- 1.1 Market Definition and Statistical Scope of Vanadium(III) Oxide
- 1.2 Key Market Segments
  - 1.2.1 Vanadium(III) Oxide Segment by Type
  - 1.2.2 Vanadium(III) Oxide Segment by Application
- 1.3 Methodology & Sources of Information
  - 1.3.1 Research Methodology
  - 1.3.2 Research Process
  - 1.3.3 Market Breakdown and Data Triangulation
  - 1.3.4 Base Year
  - 1.3.5 Report Assumptions & Caveats

### **2 VANADIUM(III) OXIDE MARKET OVERVIEW**

- 2.1 Global Market Overview
  - 2.1.1 Global Vanadium(III) Oxide Market Size (M USD) Estimates and Forecasts (2020-2035)
  - 2.1.2 Global Vanadium(III) Oxide Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

### **3 VANADIUM(III) OXIDE MARKET COMPETITIVE LANDSCAPE**

- 3.1 Company Assessment Quadrant
- 3.2 Global Vanadium(III) Oxide Product Life Cycle
- 3.3 Global Vanadium(III) Oxide Sales by Manufacturers (2020-2025)
- 3.4 Global Vanadium(III) Oxide Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Vanadium(III) Oxide Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Vanadium(III) Oxide Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Vanadium(III) Oxide Market Competitive Situation and Trends
  - 3.8.1 Vanadium(III) Oxide Market Concentration Rate
  - 3.8.2 Global 5 and 10 Largest Vanadium(III) Oxide Players Market Share by Revenue
  - 3.8.3 Mergers & Acquisitions, Expansion

### **4 VANADIUM(III) OXIDE INDUSTRY CHAIN ANALYSIS**

- 4.1 Vanadium(III) Oxide Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

## **5 THE DEVELOPMENT AND DYNAMICS OF VANADIUM(III) OXIDE MARKET**

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
  - 5.4.1 New Product Developments
  - 5.4.2 Mergers & Acquisitions
  - 5.4.3 Expansions
  - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
  - 5.5.1 Industry Policies Analysis
  - 5.5.2 Economic Environment Analysis
  - 5.5.3 Social Environment Analysis
  - 5.5.4 Technological Environment Analysis
- 5.6 Global Vanadium(III) Oxide Market Porter's Five Forces Analysis
  - 5.6.1 Global Trade Frictions
  - 5.6.2 U.S. Tariff Policy ? April 2025
  - 5.6.3 Global Trade Frictions and Their Impacts to Vanadium(III) Oxide Market
- 5.7 ESG Ratings of Leading Companies

## **6 VANADIUM(III) OXIDE MARKET SEGMENTATION BY TYPE**

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Vanadium(III) Oxide Sales Market Share by Type (2020-2025)
- 6.3 Global Vanadium(III) Oxide Market Size by Type (2020-2025)
- 6.4 Global Vanadium(III) Oxide Price by Type (2020-2025)

## **7 VANADIUM(III) OXIDE MARKET SEGMENTATION BY APPLICATION**

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Vanadium(III) Oxide Market Sales by Application (2020-2025)
- 7.3 Global Vanadium(III) Oxide Market Size (M USD) by Application (2020-2025)

## 7.4 Global Vanadium(III) Oxide Sales Growth Rate by Application (2020-2025)

# 8 VANADIUM(III) OXIDE MARKET SALES BY REGION

## 8.1 Global Vanadium(III) Oxide Sales by Region

### 8.1.1 Global Vanadium(III) Oxide Sales by Region

### 8.1.2 Global Vanadium(III) Oxide Sales Market Share by Region

## 8.2 Global Vanadium(III) Oxide Market Size by Region

### 8.2.1 Global Vanadium(III) Oxide Market Size by Region

### 8.2.2 Global Vanadium(III) Oxide Market Size by Region

## 8.3 North America

### 8.3.1 North America Vanadium(III) Oxide Sales by Country

### 8.3.2 North America Vanadium(III) Oxide Market Size by Country

### 8.3.3 U.S. Market Overview

### 8.3.4 Canada Market Overview

### 8.3.5 Mexico Market Overview

## 8.4 Europe

### 8.4.1 Europe Vanadium(III) Oxide Sales by Country

### 8.4.2 Europe Vanadium(III) Oxide Market Size by Country

### 8.4.3 Germany Market Overview

### 8.4.4 France Market Overview

### 8.4.5 U.K. Market Overview

### 8.4.6 Italy Market Overview

### 8.4.7 Spain Market Overview

## 8.5 Asia Pacific

### 8.5.1 Asia Pacific Vanadium(III) Oxide Sales by Region

### 8.5.2 Asia Pacific Vanadium(III) Oxide Market Size by Region

### 8.5.3 China Market Overview

### 8.5.4 Japan Market Overview

### 8.5.5 South Korea Market Overview

### 8.5.6 India Market Overview

### 8.5.7 Southeast Asia Market Overview

## 8.6 South America

### 8.6.1 South America Vanadium(III) Oxide Sales by Country

### 8.6.2 South America Vanadium(III) Oxide Market Size by Country

### 8.6.3 Brazil Market Overview

### 8.6.4 Argentina Market Overview

### 8.6.5 Columbia Market Overview

## 8.7 Middle East and Africa

- 8.7.1 Middle East and Africa Vanadium(III) Oxide Sales by Region
- 8.7.2 Middle East and Africa Vanadium(III) Oxide Market Size by Region
- 8.7.3 Saudi Arabia Market Overview
- 8.7.4 UAE Market Overview
- 8.7.5 Egypt Market Overview
- 8.7.6 Nigeria Market Overview
- 8.7.7 South Africa Market Overview

## **9 VANADIUM(III) OXIDE MARKET PRODUCTION BY REGION**

- 9.1 Global Production of Vanadium(III) Oxide by Region(2020-2025)
- 9.2 Global Vanadium(III) Oxide Revenue Market Share by Region (2020-2025)
- 9.3 Global Vanadium(III) Oxide Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Vanadium(III) Oxide Production
  - 9.4.1 North America Vanadium(III) Oxide Production Growth Rate (2020-2025)
  - 9.4.2 North America Vanadium(III) Oxide Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Vanadium(III) Oxide Production
  - 9.5.1 Europe Vanadium(III) Oxide Production Growth Rate (2020-2025)
  - 9.5.2 Europe Vanadium(III) Oxide Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Vanadium(III) Oxide Production (2020-2025)
  - 9.6.1 Japan Vanadium(III) Oxide Production Growth Rate (2020-2025)
  - 9.6.2 Japan Vanadium(III) Oxide Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Vanadium(III) Oxide Production (2020-2025)
  - 9.7.1 China Vanadium(III) Oxide Production Growth Rate (2020-2025)
  - 9.7.2 China Vanadium(III) Oxide Production, Revenue, Price and Gross Margin (2020-2025)

## **10 KEY COMPANIES PROFILE**

- 10.1 Bushveld Vanadium
  - 10.1.1 Bushveld Vanadium Basic Information
  - 10.1.2 Bushveld Vanadium Vanadium(III) Oxide Product Overview
  - 10.1.3 Bushveld Vanadium Vanadium(III) Oxide Product Market Performance
  - 10.1.4 Bushveld Vanadium Business Overview
  - 10.1.5 Bushveld Vanadium SWOT Analysis

- 10.1.6 Bushveld Vanadium Recent Developments
- 10.2 Treibacher Industrie AG
  - 10.2.1 Treibacher Industrie AG Basic Information
  - 10.2.2 Treibacher Industrie AG Vanadium(III) Oxide Product Overview
  - 10.2.3 Treibacher Industrie AG Vanadium(III) Oxide Product Market Performance
  - 10.2.4 Treibacher Industrie AG Business Overview
  - 10.2.5 Treibacher Industrie AG SWOT Analysis
  - 10.2.6 Treibacher Industrie AG Recent Developments
- 10.3 Largo Resources Ltd
  - 10.3.1 Largo Resources Ltd Basic Information
  - 10.3.2 Largo Resources Ltd Vanadium(III) Oxide Product Overview
  - 10.3.3 Largo Resources Ltd Vanadium(III) Oxide Product Market Performance
  - 10.3.4 Largo Resources Ltd Business Overview
  - 10.3.5 Largo Resources Ltd SWOT Analysis
  - 10.3.6 Largo Resources Ltd Recent Developments
- 10.4 AMG Critical Materials
  - 10.4.1 AMG Critical Materials Basic Information
  - 10.4.2 AMG Critical Materials Vanadium(III) Oxide Product Overview
  - 10.4.3 AMG Critical Materials Vanadium(III) Oxide Product Market Performance
  - 10.4.4 AMG Critical Materials Business Overview
  - 10.4.5 AMG Critical Materials Recent Developments

## **11 VANADIUM(III) OXIDE MARKET FORECAST BY REGION**

- 11.1 Global Vanadium(III) Oxide Market Size Forecast
- 11.2 Global Vanadium(III) Oxide Market Forecast by Region
  - 11.2.1 North America Market Size Forecast by Country
  - 11.2.2 Europe Vanadium(III) Oxide Market Size Forecast by Country
  - 11.2.3 Asia Pacific Vanadium(III) Oxide Market Size Forecast by Region
  - 11.2.4 South America Vanadium(III) Oxide Market Size Forecast by Country
  - 11.2.5 Middle East and Africa Forecasted Sales of Vanadium(III) Oxide by Country

## **12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)**

- 12.1 Global Vanadium(III) Oxide Market Forecast by Type (2026-2035)
  - 12.1.1 Global Forecasted Sales of Vanadium(III) Oxide by Type (2026-2035)
  - 12.1.2 Global Vanadium(III) Oxide Market Size Forecast by Type (2026-2035)
  - 12.1.3 Global Forecasted Price of Vanadium(III) Oxide by Type (2026-2035)
- 12.2 Global Vanadium(III) Oxide Market Forecast by Application (2026-2035)

- 12.2.1 Global Vanadium(III) Oxide Sales (K MT) Forecast by Application
- 12.2.2 Global Vanadium(III) Oxide Market Size (M USD) Forecast by Application (2026-2035)

## **13 CONCLUSION AND KEY FINDINGS**

## List Of Tables

### LIST OF TABLES

- Table 1. Introduction of the Type
- Table 2. Introduction of the Application
- Table 3. Global Vanadium(III) Oxide Market Size by Type (M USD)
- Table 4. Global Vanadium(III) Oxide Market Size by Application
- Table 5. Vanadium(III) Oxide Market Size Comparison by Region (M USD)
- Table 6. Global Vanadium(III) Oxide Sales (K MT) by Manufacturers (2020-2025)
- Table 7. Global Vanadium(III) Oxide Sales Market Share by Manufacturers (2020-2025)
- Table 8. Global Vanadium(III) Oxide Revenue (M USD) by Manufacturers (2020-2025)
- Table 9. Global Vanadium(III) Oxide Revenue Share by Manufacturers (2020-2025)
- Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Vanadium(III) Oxide as of 2025)
- Table 11. Global Market Vanadium(III) Oxide Average Price (USD/KG) of Key Manufacturers (2020-2025)
- Table 12. Manufacturers? Manufacturing Sites, Areas Served
- Table 13. Manufacturers? Product Type
- Table 14. Global Vanadium(III) Oxide Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 15. Mergers & Acquisitions, Expansion Plans
- Table 16. Market Overview of Key Raw Materials
- Table 17. Midstream Market Analysis
- Table 18. Downstream Customer Analysis
- Table 19. Key Development Trends
- Table 20. Driving Factors
- Table 21. Vanadium(III) Oxide Market Challenges
- Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026
- Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027
- Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026
- Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries
- Table 26. Global Vanadium(III) Oxide Sales by Type (K MT)
- Table 27. Global Vanadium(III) Oxide Market Size by Type (M USD)
- Table 28. Global Vanadium(III) Oxide Sales (K MT) by Type (2020-2025)
- Table 29. Global Vanadium(III) Oxide Sales Market Share by Type (2020-2025)
- Table 30. Global Vanadium(III) Oxide Market Size (M USD) by Type (2020-2025)
- Table 31. Global Vanadium(III) Oxide Market Share by Type (2020-2025)

- Table 32. Global Vanadium(III) Oxide Price (USD/KG) by Type (2020-2025)
- Table 33. Global Vanadium(III) Oxide Sales (K MT) by Application
- Table 34. Global Vanadium(III) Oxide Market Size by Application
- Table 35. Global Vanadium(III) Oxide Sales by Application (2020-2025) & (K MT)
- Table 36. Global Vanadium(III) Oxide Sales Market Share by Application (2020-2025)
- Table 37. Global Vanadium(III) Oxide Market Size by Application (2020-2025) & (M USD)
- Table 38. Global Vanadium(III) Oxide Market Share by Application (2020-2025)
- Table 39. Global Vanadium(III) Oxide Sales Growth Rate by Application (2020-2025)
- Table 40. Global Vanadium(III) Oxide Sales by Region (2020-2025) & (K MT)
- Table 41. Global Vanadium(III) Oxide Sales Market Share by Region (2020-2025)
- Table 42. Global Vanadium(III) Oxide Market Size by Region (2020-2025) & (M USD)
- Table 43. Global Vanadium(III) Oxide Market Size by Region (2020-2025)
- Table 44. North America Vanadium(III) Oxide Sales by Country (2020-2025) & (K MT)
- Table 45. North America Vanadium(III) Oxide Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe Vanadium(III) Oxide Sales by Country (2020-2025) & (K MT)
- Table 47. Europe Vanadium(III) Oxide Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific Vanadium(III) Oxide Sales by Region (2020-2025) & (K MT)
- Table 49. Asia Pacific Vanadium(III) Oxide Market Size by Region (2020-2025) & (M USD)
- Table 50. South America Vanadium(III) Oxide Sales by Country (2020-2025) & (K MT)
- Table 51. South America Vanadium(III) Oxide Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa Vanadium(III) Oxide Sales by Region (2020-2025) & (K MT)
- Table 53. Middle East and Africa Vanadium(III) Oxide Market Size by Region (2020-2025) & (M USD)
- Table 54. Global Vanadium(III) Oxide Production (K MT) by Region(2020-2025)
- Table 55. Global Vanadium(III) Oxide Revenue (US\$ Million) by Region (2020-2025)
- Table 56. Global Vanadium(III) Oxide Revenue Market Share by Region (2020-2025)
- Table 57. Global Vanadium(III) Oxide Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 58. North America Vanadium(III) Oxide Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 59. Europe Vanadium(III) Oxide Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 60. Japan Vanadium(III) Oxide Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 61. China Vanadium(III) Oxide Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 62. Bushveld Vanadium Basic Information

Table 63. Bushveld Vanadium Vanadium(III) Oxide Product Overview

Table 64. Bushveld Vanadium Vanadium(III) Oxide Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 65. Bushveld Vanadium Business Overview

Table 66. Bushveld Vanadium SWOT Analysis

Table 67. Bushveld Vanadium Recent Developments

Table 68. Treibacher Industrie AG Basic Information

Table 69. Treibacher Industrie AG Vanadium(III) Oxide Product Overview

Table 70. Treibacher Industrie AG Vanadium(III) Oxide Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 71. Treibacher Industrie AG Business Overview

Table 72. Treibacher Industrie AG SWOT Analysis

Table 73. Treibacher Industrie AG Recent Developments

Table 74. Largo Resources Ltd Basic Information

Table 75. Largo Resources Ltd Vanadium(III) Oxide Product Overview

Table 76. Largo Resources Ltd Vanadium(III) Oxide Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 77. Largo Resources Ltd Business Overview

Table 78. Largo Resources Ltd SWOT Analysis

Table 79. Largo Resources Ltd Recent Developments

Table 80. AMG Critical Materials Basic Information

Table 81. AMG Critical Materials Vanadium(III) Oxide Product Overview

Table 82. AMG Critical Materials Vanadium(III) Oxide Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 83. AMG Critical Materials Business Overview

Table 84. AMG Critical Materials Recent Developments

Table 85. Global Vanadium(III) Oxide Sales Forecast by Region (2026-2035) & (K MT)

Table 86. Global Vanadium(III) Oxide Market Size Forecast by Region (2026-2035) & (M USD)

Table 87. North America Vanadium(III) Oxide Sales Forecast by Country (2026-2035) & (K MT)

Table 88. North America Vanadium(III) Oxide Market Size Forecast by Country (2026-2035) & (M USD)

Table 89. Europe Vanadium(III) Oxide Sales Forecast by Country (2026-2035) & (K MT)

Table 90. Europe Vanadium(III) Oxide Market Size Forecast by Country (2026-2035) & (M USD)

Table 91. Asia Pacific Vanadium(III) Oxide Sales Forecast by Region (2026-2035) & (K MT)

Table 92. Asia Pacific Vanadium(III) Oxide Market Size Forecast by Region (2026-2035) & (M USD)

Table 93. South America Vanadium(III) Oxide Sales Forecast by Country (2026-2035) & (K MT)

Table 94. South America Vanadium(III) Oxide Market Size Forecast by Country (2026-2035) & (M USD)

Table 95. Middle East and Africa Vanadium(III) Oxide Sales Forecast by Country (2026-2035) & (Units)

Table 96. Middle East and Africa Vanadium(III) Oxide Market Size Forecast by Country (2026-2035) & (M USD)

Table 97. Global Vanadium(III) Oxide Sales Forecast by Type (2026-2035) & (K MT)

Table 98. Global Vanadium(III) Oxide Market Size Forecast by Type (2026-2035) & (M USD)

Table 99. Global Vanadium(III) Oxide Price Forecast by Type (2026-2035) & (USD/KG)

Table 100. Global Vanadium(III) Oxide Sales (K MT) Forecast by Application (2026-2035)

Table 101. Global Vanadium(III) Oxide Market Size Forecast by Application (2026-2035) & (M USD)

## List Of Figures

### LIST OF FIGURES

- Figure 1. Product Picture of Vanadium(III) Oxide
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Vanadium(III) Oxide Market Size (M USD), 2025-2035
- Figure 5. Global Vanadium(III) Oxide Market Size (M USD) (2020-2035)
- Figure 6. Global Vanadium(III) Oxide Sales (K MT) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Vanadium(III) Oxide Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Vanadium(III) Oxide Product Life Cycle
- Figure 13. Vanadium(III) Oxide Sales Share by Manufacturers in 2025
- Figure 14. Global Vanadium(III) Oxide Revenue Share by Manufacturers in 2025
- Figure 15. Vanadium(III) Oxide Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Vanadium(III) Oxide Average Price (USD/KG) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Vanadium(III) Oxide Revenue in 2025
- Figure 18. Industry Chain Map of Vanadium(III) Oxide
- Figure 19. Global Vanadium(III) Oxide Market PEST Analysis
- Figure 20. Global Vanadium(III) Oxide Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Vanadium(III) Oxide Market Share by Type
- Figure 27. Sales Market Share of Vanadium(III) Oxide by Type (2020-2025)
- Figure 28. Sales Market Share of Vanadium(III) Oxide by Type in 2025
- Figure 29. Market Share of Vanadium(III) Oxide by Type (2020-2025)
- Figure 30. Market Share of Vanadium(III) Oxide by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Vanadium(III) Oxide Market Share by Application

- Figure 33. Global Vanadium(III) Oxide Sales Market Share by Application (2020-2025)
- Figure 34. Global Vanadium(III) Oxide Sales Market Share by Application in 2025
- Figure 35. Global Vanadium(III) Oxide Market Share by Application (2020-2025)
- Figure 36. Global Vanadium(III) Oxide Market Share by Application in 2025
- Figure 37. Global Vanadium(III) Oxide Sales Growth Rate by Application (2020-2025)
- Figure 38. Global Vanadium(III) Oxide Sales Market Share by Region (2020-2025)
- Figure 39. Global Vanadium(III) Oxide Market Size by Region (2020-2025)
- Figure 40. North America Vanadium(III) Oxide Sales and Growth Rate (2020-2025) & (K MT)
- Figure 41. North America Vanadium(III) Oxide Sales and Growth Rate (2020-2025) & (K MT)
- Figure 42. North America Vanadium(III) Oxide Sales Market Share by Country in 2024
- Figure 43. North America Vanadium(III) Oxide Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America Vanadium(III) Oxide Market Size by Country in 2024
- Figure 45. U.S. Vanadium(III) Oxide Sales and Growth Rate (2020-2025) & (K MT)
- Figure 46. U.S. Vanadium(III) Oxide Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada Vanadium(III) Oxide Sales (K MT) and Growth Rate (2020-2025)
- Figure 48. Canada Vanadium(III) Oxide Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico Vanadium(III) Oxide Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico Vanadium(III) Oxide Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe Vanadium(III) Oxide Sales and Growth Rate (2020-2025) & (K MT)
- Figure 52. Europe Vanadium(III) Oxide Sales Market Share by Country in 2024
- Figure 53. Europe Vanadium(III) Oxide Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 54. Europe Vanadium(III) Oxide Market Size by Country in 2024
- Figure 55. Germany Vanadium(III) Oxide Sales and Growth Rate (2020-2025) & (K MT)
- Figure 56. Germany Vanadium(III) Oxide Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 57. France Vanadium(III) Oxide Sales and Growth Rate (2020-2025) & (K MT)
- Figure 58. France Vanadium(III) Oxide Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 59. U.K. Vanadium(III) Oxide Sales and Growth Rate (2020-2025) & (K MT)
- Figure 60. U.K. Vanadium(III) Oxide Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 61. Italy Vanadium(III) Oxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 62. Italy Vanadium(III) Oxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Vanadium(III) Oxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 64. Spain Vanadium(III) Oxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Vanadium(III) Oxide Sales and Growth Rate (K MT)

Figure 66. Asia Pacific Vanadium(III) Oxide Sales Market Share by Region in 2024

Figure 67. Asia Pacific Vanadium(III) Oxide Market Size by Region in 2024

Figure 68. China Vanadium(III) Oxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 69. China Vanadium(III) Oxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Vanadium(III) Oxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 71. Japan Vanadium(III) Oxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Vanadium(III) Oxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 73. South Korea Vanadium(III) Oxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Vanadium(III) Oxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 75. India Vanadium(III) Oxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Vanadium(III) Oxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 77. Southeast Asia Vanadium(III) Oxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Vanadium(III) Oxide Sales and Growth Rate (K MT)

Figure 79. South America Vanadium(III) Oxide Sales Market Share by Country in 2024

Figure 80. South America Vanadium(III) Oxide Market Size and Growth Rate (M USD)

Figure 81. South America Vanadium(III) Oxide Market Size by Country in 2024

Figure 82. Brazil Vanadium(III) Oxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 83. Brazil Vanadium(III) Oxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Vanadium(III) Oxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 85. Argentina Vanadium(III) Oxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Vanadium(III) Oxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 87. Columbia Vanadium(III) Oxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Vanadium(III) Oxide Sales and Growth Rate (K MT)

Figure 89. Middle East and Africa Vanadium(III) Oxide Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Vanadium(III) Oxide Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Vanadium(III) Oxide Market Size by Region in 2024

Figure 92. Saudi Arabia Vanadium(III) Oxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 93. Saudi Arabia Vanadium(III) Oxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Vanadium(III) Oxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 95. UAE Vanadium(III) Oxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Vanadium(III) Oxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 97. Egypt Vanadium(III) Oxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Vanadium(III) Oxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 99. Nigeria Vanadium(III) Oxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Vanadium(III) Oxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 101. South Africa Vanadium(III) Oxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Vanadium(III) Oxide Production Market Share by Region (2020-2025)

Figure 103. North America Vanadium(III) Oxide Production (K MT) Growth Rate (2020-2025)

Figure 104. Europe Vanadium(III) Oxide Production (K MT) Growth Rate (2020-2025)

Figure 105. Japan Vanadium(III) Oxide Production (K MT) Growth Rate (2020-2025)

Figure 106. China Vanadium(III) Oxide Production (K MT) Growth Rate (2020-2025)

Figure 107. Global Vanadium(III) Oxide Sales Forecast by Volume (2020-2035) & (K MT)

Figure 108. Global Vanadium(III) Oxide Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Vanadium(III) Oxide Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Vanadium(III) Oxide Market Share Forecast by Type (2026-2035)

Figure 111. Global Vanadium(III) Oxide Sales Forecast by Application (2026-2035)

Figure 112. Global Vanadium(III) Oxide Market Share Forecast by Application (2026-2035)

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