

# Global Vanadium Dioxide Powder 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 Dioxide Powder competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. In 2024, global vanadium dioxide (VO<sub>2</sub>) powder production reached 57 tons, with an average selling price of US\$2,216 per kg. Vanadium dioxide (VO<sub>2</sub>) powder is a dark blue or black crystalline powder. The valence state of vanadium is +4. It is insoluble in water but readily soluble in acids and bases. Vanadium dioxide (VO<sub>2</sub>) powder is a vanadium oxide with unique physical properties. At room temperature, it is in the monoclinic phase and behaves as an insulator. When the temperature exceeds the critical point, VO<sub>2</sub> rapidly transforms to a rutile structure, exhibiting metallic conductivity. A metal-insulator phase transition occurs at approximately 68°C (341K). This reversible phase transition makes it widely used in the glass, optics, and ceramics fields, including smart windows, optical devices such as sensors and actuators, electronic components, terahertz metamaterials, lithium battery cathode materials, and energy-saving coatings. Upstream raw materials for vanadium dioxide (VO<sub>2</sub>) powder include vanadium source compounds (such as vanadium pentoxide (V<sub>2</sub>O<sub>5</sub>), vanadium chloride, sodium metavanadate, etc.), reducing agents, additives, carriers, inert gases, and solvents. Downstream manufacturers include manufacturers of smart windows, optical devices such as sensors and actuators, electronic components, terahertz metamaterials, lithium battery cathode materials, and energy-saving coatings. Because VO<sub>2</sub> is a functional and high-tech material, its gross profit margin is relatively high, potentially ranging from 25% to 60%.

The global Vanadium Dioxide Powder market size was estimated at USD 126.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 12.40%

during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Vanadium Dioxide Powder 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 Dioxide Powder 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 Dioxide Powder market.

### **Global Vanadium Dioxide Powder 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**

American Elements  
All India Metal Corporation  
Nanochemazone  
Lorad Chemical Corporation  
GfE Metalle und Materialien GmbH  
Zegen Advanced Materials

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

(2N) 99%  
(3N) 99.9%  
(4N) 99.99%  
(5N) 99.999%

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

Smart Windows  
Optical Devices and Electronic Components  
Lithium Battery Cathode Material  
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 Dioxide Powder Market

Overview of the regional outlook of the Vanadium Dioxide Powder 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 Dioxide Powder 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 Dioxide Powder, 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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## Contents

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

1.1 Market Definition and Statistical Scope of Vanadium Dioxide Powder

1.2 Key Market Segments

1.2.1 Vanadium Dioxide Powder Segment by Type

1.2.2 Vanadium Dioxide Powder 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 DIOXIDE POWDER MARKET OVERVIEW**

2.1 Global Market Overview

2.1.1 Global Vanadium Dioxide Powder Market Size (M USD) Estimates and Forecasts (2020-2035)

2.1.2 Global Vanadium Dioxide Powder Sales Estimates and Forecasts (2020-2035)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

### **3 VANADIUM DIOXIDE POWDER MARKET COMPETITIVE LANDSCAPE**

3.1 Company Assessment Quadrant

3.2 Global Vanadium Dioxide Powder Product Life Cycle

3.3 Global Vanadium Dioxide Powder Sales by Manufacturers (2020-2025)

3.4 Global Vanadium Dioxide Powder Revenue Market Share by Manufacturers (2020-2025)

3.5 Vanadium Dioxide Powder Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Vanadium Dioxide Powder Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Vanadium Dioxide Powder Market Competitive Situation and Trends

3.8.1 Vanadium Dioxide Powder Market Concentration Rate

3.8.2 Global 5 and 10 Largest Vanadium Dioxide Powder Players Market Share by Revenue

### 3.8.3 Mergers & Acquisitions, Expansion

## **4 VANADIUM DIOXIDE POWDER INDUSTRY CHAIN ANALYSIS**

### 4.1 Vanadium Dioxide Powder 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 DIOXIDE POWDER 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 Dioxide Powder 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 Dioxide Powder Market

### 5.7 ESG Ratings of Leading Companies

## **6 VANADIUM DIOXIDE POWDER MARKET SEGMENTATION BY TYPE**

### 6.1 Evaluation Matrix of Segment Market Development Potential (Type)

### 6.2 Global Vanadium Dioxide Powder Sales Market Share by Type (2020-2025)

### 6.3 Global Vanadium Dioxide Powder Market Size by Type (2020-2025)

### 6.4 Global Vanadium Dioxide Powder Price by Type (2020-2025)

## **7 VANADIUM DIOXIDE POWDER MARKET SEGMENTATION BY APPLICATION**

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Vanadium Dioxide Powder Market Sales by Application (2020-2025)
- 7.3 Global Vanadium Dioxide Powder Market Size (M USD) by Application (2020-2025)
- 7.4 Global Vanadium Dioxide Powder Sales Growth Rate by Application (2020-2025)

## **8 VANADIUM DIOXIDE POWDER MARKET SALES BY REGION**

- 8.1 Global Vanadium Dioxide Powder Sales by Region
  - 8.1.1 Global Vanadium Dioxide Powder Sales by Region
  - 8.1.2 Global Vanadium Dioxide Powder Sales Market Share by Region
- 8.2 Global Vanadium Dioxide Powder Market Size by Region
  - 8.2.1 Global Vanadium Dioxide Powder Market Size by Region
  - 8.2.2 Global Vanadium Dioxide Powder Market Size by Region
- 8.3 North America
  - 8.3.1 North America Vanadium Dioxide Powder Sales by Country
  - 8.3.2 North America Vanadium Dioxide Powder 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 Dioxide Powder Sales by Country
  - 8.4.2 Europe Vanadium Dioxide Powder 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 Dioxide Powder Sales by Region
  - 8.5.2 Asia Pacific Vanadium Dioxide Powder 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 Dioxide Powder Sales by Country
  - 8.6.2 South America Vanadium Dioxide Powder 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 Dioxide Powder Sales by Region

8.7.2 Middle East and Africa Vanadium Dioxide Powder 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 DIOXIDE POWDER MARKET PRODUCTION BY REGION**

9.1 Global Production of Vanadium Dioxide Powder by Region(2020-2025)

9.2 Global Vanadium Dioxide Powder Revenue Market Share by Region (2020-2025)

9.3 Global Vanadium Dioxide Powder Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America Vanadium Dioxide Powder Production

9.4.1 North America Vanadium Dioxide Powder Production Growth Rate (2020-2025)

9.4.2 North America Vanadium Dioxide Powder Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe Vanadium Dioxide Powder Production

9.5.1 Europe Vanadium Dioxide Powder Production Growth Rate (2020-2025)

9.5.2 Europe Vanadium Dioxide Powder Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Vanadium Dioxide Powder Production (2020-2025)

9.6.1 Japan Vanadium Dioxide Powder Production Growth Rate (2020-2025)

9.6.2 Japan Vanadium Dioxide Powder Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Vanadium Dioxide Powder Production (2020-2025)

9.7.1 China Vanadium Dioxide Powder Production Growth Rate (2020-2025)

9.7.2 China Vanadium Dioxide Powder Production, Revenue, Price and Gross Margin (2020-2025)

## **10 KEY COMPANIES PROFILE**

10.1 American Elements

10.1.1 American Elements Basic Information

- 10.1.2 American Elements Vanadium Dioxide Powder Product Overview
- 10.1.3 American Elements Vanadium Dioxide Powder Product Market Performance
- 10.1.4 American Elements Business Overview
- 10.1.5 American Elements SWOT Analysis
- 10.1.6 American Elements Recent Developments
- 10.2 All India Metal Corporation
  - 10.2.1 All India Metal Corporation Basic Information
  - 10.2.2 All India Metal Corporation Vanadium Dioxide Powder Product Overview
  - 10.2.3 All India Metal Corporation Vanadium Dioxide Powder Product Market Performance
  - 10.2.4 All India Metal Corporation Business Overview
  - 10.2.5 All India Metal Corporation SWOT Analysis
  - 10.2.6 All India Metal Corporation Recent Developments
- 10.3 Nanochemazone
  - 10.3.1 Nanochemazone Basic Information
  - 10.3.2 Nanochemazone Vanadium Dioxide Powder Product Overview
  - 10.3.3 Nanochemazone Vanadium Dioxide Powder Product Market Performance
  - 10.3.4 Nanochemazone Business Overview
  - 10.3.5 Nanochemazone SWOT Analysis
  - 10.3.6 Nanochemazone Recent Developments
- 10.4 Lorad Chemical Corporation
  - 10.4.1 Lorad Chemical Corporation Basic Information
  - 10.4.2 Lorad Chemical Corporation Vanadium Dioxide Powder Product Overview
  - 10.4.3 Lorad Chemical Corporation Vanadium Dioxide Powder Product Market Performance
  - 10.4.4 Lorad Chemical Corporation Business Overview
  - 10.4.5 Lorad Chemical Corporation Recent Developments
- 10.5 GfE Metalle und Materialien GmbH
  - 10.5.1 GfE Metalle und Materialien GmbH Basic Information
  - 10.5.2 GfE Metalle und Materialien GmbH Vanadium Dioxide Powder Product Overview
  - 10.5.3 GfE Metalle und Materialien GmbH Vanadium Dioxide Powder Product Market Performance
  - 10.5.4 GfE Metalle und Materialien GmbH Business Overview
  - 10.5.5 GfE Metalle und Materialien GmbH Recent Developments
- 10.6 Zegen Advanced Materials
  - 10.6.1 Zegen Advanced Materials Basic Information
  - 10.6.2 Zegen Advanced Materials Vanadium Dioxide Powder Product Overview
  - 10.6.3 Zegen Advanced Materials Vanadium Dioxide Powder Product Market

## Performance

- 10.6.4 Zegen Advanced Materials Business Overview
- 10.6.5 Zegen Advanced Materials Recent Developments

## **11 VANADIUM DIOXIDE POWDER MARKET FORECAST BY REGION**

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

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

- 12.1 Global Vanadium Dioxide Powder Market Forecast by Type (2026-2035)
  - 12.1.1 Global Forecasted Sales of Vanadium Dioxide Powder by Type (2026-2035)
  - 12.1.2 Global Vanadium Dioxide Powder Market Size Forecast by Type (2026-2035)
  - 12.1.3 Global Forecasted Price of Vanadium Dioxide Powder by Type (2026-2035)
- 12.2 Global Vanadium Dioxide Powder Market Forecast by Application (2026-2035)
  - 12.2.1 Global Vanadium Dioxide Powder Sales (K MT) Forecast by Application
  - 12.2.2 Global Vanadium Dioxide Powder 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 Dioxide Powder Market Size by Type (M USD)

Table 4. Global Vanadium Dioxide Powder Market Size by Application

Table 5. Vanadium Dioxide Powder Market Size Comparison by Region (M USD)

Table 6. Global Vanadium Dioxide Powder Sales (K MT) by Manufacturers (2020-2025)

Table 7. Global Vanadium Dioxide Powder Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Vanadium Dioxide Powder Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Vanadium Dioxide Powder Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Vanadium Dioxide Powder as of 2025)

Table 11. Global Market Vanadium Dioxide Powder 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 Dioxide Powder 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 Dioxide Powder 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 Dioxide Powder Sales by Type (K MT)

Table 27. Global Vanadium Dioxide Powder Market Size by Type (M USD)

Table 28. Global Vanadium Dioxide Powder Sales (K MT) by Type (2020-2025)

- Table 29. Global Vanadium Dioxide Powder Sales Market Share by Type (2020-2025)
- Table 30. Global Vanadium Dioxide Powder Market Size (M USD) by Type (2020-2025)
- Table 31. Global Vanadium Dioxide Powder Market Share by Type (2020-2025)
- Table 32. Global Vanadium Dioxide Powder Price (USD/KG) by Type (2020-2025)
- Table 33. Global Vanadium Dioxide Powder Sales (K MT) by Application
- Table 34. Global Vanadium Dioxide Powder Market Size by Application
- Table 35. Global Vanadium Dioxide Powder Sales by Application (2020-2025) & (K MT)
- Table 36. Global Vanadium Dioxide Powder Sales Market Share by Application (2020-2025)
- Table 37. Global Vanadium Dioxide Powder Market Size by Application (2020-2025) & (M USD)
- Table 38. Global Vanadium Dioxide Powder Market Share by Application (2020-2025)
- Table 39. Global Vanadium Dioxide Powder Sales Growth Rate by Application (2020-2025)
- Table 40. Global Vanadium Dioxide Powder Sales by Region (2020-2025) & (K MT)
- Table 41. Global Vanadium Dioxide Powder Sales Market Share by Region (2020-2025)
- Table 42. Global Vanadium Dioxide Powder Market Size by Region (2020-2025) & (M USD)
- Table 43. Global Vanadium Dioxide Powder Market Size by Region (2020-2025)
- Table 44. North America Vanadium Dioxide Powder Sales by Country (2020-2025) & (K MT)
- Table 45. North America Vanadium Dioxide Powder Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe Vanadium Dioxide Powder Sales by Country (2020-2025) & (K MT)
- Table 47. Europe Vanadium Dioxide Powder Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific Vanadium Dioxide Powder Sales by Region (2020-2025) & (K MT)
- Table 49. Asia Pacific Vanadium Dioxide Powder Market Size by Region (2020-2025) & (M USD)
- Table 50. South America Vanadium Dioxide Powder Sales by Country (2020-2025) & (K MT)
- Table 51. South America Vanadium Dioxide Powder Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa Vanadium Dioxide Powder Sales by Region (2020-2025) & (K MT)
- Table 53. Middle East and Africa Vanadium Dioxide Powder Market Size by Region (2020-2025) & (M USD)
- Table 54. Global Vanadium Dioxide Powder Production (K MT) by Region(2020-2025)

- Table 55. Global Vanadium Dioxide Powder Revenue (US\$ Million) by Region (2020-2025)
- Table 56. Global Vanadium Dioxide Powder Revenue Market Share by Region (2020-2025)
- Table 57. Global Vanadium Dioxide Powder Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 58. North America Vanadium Dioxide Powder Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 59. Europe Vanadium Dioxide Powder Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 60. Japan Vanadium Dioxide Powder Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 61. China Vanadium Dioxide Powder Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 62. American Elements Basic Information
- Table 63. American Elements Vanadium Dioxide Powder Product Overview
- Table 64. American Elements Vanadium Dioxide Powder Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 65. American Elements Business Overview
- Table 66. American Elements SWOT Analysis
- Table 67. American Elements Recent Developments
- Table 68. All India Metal Corporation Basic Information
- Table 69. All India Metal Corporation Vanadium Dioxide Powder Product Overview
- Table 70. All India Metal Corporation Vanadium Dioxide Powder Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 71. All India Metal Corporation Business Overview
- Table 72. All India Metal Corporation SWOT Analysis
- Table 73. All India Metal Corporation Recent Developments
- Table 74. Nanochemazone Basic Information
- Table 75. Nanochemazone Vanadium Dioxide Powder Product Overview
- Table 76. Nanochemazone Vanadium Dioxide Powder Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 77. Nanochemazone Business Overview
- Table 78. Nanochemazone SWOT Analysis
- Table 79. Nanochemazone Recent Developments
- Table 80. Lorad Chemical Corporation Basic Information
- Table 81. Lorad Chemical Corporation Vanadium Dioxide Powder Product Overview
- Table 82. Lorad Chemical Corporation Vanadium Dioxide Powder Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 83. Lorad Chemical Corporation Business Overview

Table 84. Lorad Chemical Corporation Recent Developments

Table 85. GfE Metalle und Materialien GmbH Basic Information

Table 86. GfE Metalle und Materialien GmbH Vanadium Dioxide Powder Product Overview

Table 87. GfE Metalle und Materialien GmbH Vanadium Dioxide Powder Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 88. GfE Metalle und Materialien GmbH Business Overview

Table 89. GfE Metalle und Materialien GmbH Recent Developments

Table 90. Zegen Advanced Materials Basic Information

Table 91. Zegen Advanced Materials Vanadium Dioxide Powder Product Overview

Table 92. Zegen Advanced Materials Vanadium Dioxide Powder Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 93. Zegen Advanced Materials Business Overview

Table 94. Zegen Advanced Materials Recent Developments

Table 95. Global Vanadium Dioxide Powder Sales Forecast by Region (2026-2035) & (K MT)

Table 96. Global Vanadium Dioxide Powder Market Size Forecast by Region (2026-2035) & (M USD)

Table 97. North America Vanadium Dioxide Powder Sales Forecast by Country (2026-2035) & (K MT)

Table 98. North America Vanadium Dioxide Powder Market Size Forecast by Country (2026-2035) & (M USD)

Table 99. Europe Vanadium Dioxide Powder Sales Forecast by Country (2026-2035) & (K MT)

Table 100. Europe Vanadium Dioxide Powder Market Size Forecast by Country (2026-2035) & (M USD)

Table 101. Asia Pacific Vanadium Dioxide Powder Sales Forecast by Region (2026-2035) & (K MT)

Table 102. Asia Pacific Vanadium Dioxide Powder Market Size Forecast by Region (2026-2035) & (M USD)

Table 103. South America Vanadium Dioxide Powder Sales Forecast by Country (2026-2035) & (K MT)

Table 104. South America Vanadium Dioxide Powder Market Size Forecast by Country (2026-2035) & (M USD)

Table 105. Middle East and Africa Vanadium Dioxide Powder Sales Forecast by Country (2026-2035) & (Units)

Table 106. Middle East and Africa Vanadium Dioxide Powder Market Size Forecast by Country (2026-2035) & (M USD)

Table 107. Global Vanadium Dioxide Powder Sales Forecast by Type (2026-2035) & (K MT)

Table 108. Global Vanadium Dioxide Powder Market Size Forecast by Type (2026-2035) & (M USD)

Table 109. Global Vanadium Dioxide Powder Price Forecast by Type (2026-2035) & (USD/KG)

Table 110. Global Vanadium Dioxide Powder Sales (K MT) Forecast by Application (2026-2035)

Table 111. Global Vanadium Dioxide Powder Market Size Forecast by Application (2026-2035) & (M USD)

## List Of Figures

### LIST OF FIGURES

- Figure 1. Product Picture of Vanadium Dioxide Powder
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Vanadium Dioxide Powder Market Size (M USD), 2025-2035
- Figure 5. Global Vanadium Dioxide Powder Market Size (M USD) (2020-2035)
- Figure 6. Global Vanadium Dioxide Powder 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 Dioxide Powder Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Vanadium Dioxide Powder Product Life Cycle
- Figure 13. Vanadium Dioxide Powder Sales Share by Manufacturers in 2025
- Figure 14. Global Vanadium Dioxide Powder Revenue Share by Manufacturers in 2025
- Figure 15. Vanadium Dioxide Powder Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Vanadium Dioxide Powder Average Price (USD/KG) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Vanadium Dioxide Powder Revenue in 2025
- Figure 18. Industry Chain Map of Vanadium Dioxide Powder
- Figure 19. Global Vanadium Dioxide Powder Market PEST Analysis
- Figure 20. Global Vanadium Dioxide Powder 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 Dioxide Powder Market Share by Type
- Figure 27. Sales Market Share of Vanadium Dioxide Powder by Type (2020-2025)
- Figure 28. Sales Market Share of Vanadium Dioxide Powder by Type in 2025
- Figure 29. Market Share of Vanadium Dioxide Powder by Type (2020-2025)
- Figure 30. Market Share of Vanadium Dioxide Powder by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Vanadium Dioxide Powder Market Share by Application

Figure 33. Global Vanadium Dioxide Powder Sales Market Share by Application (2020-2025)

Figure 34. Global Vanadium Dioxide Powder Sales Market Share by Application in 2025

Figure 35. Global Vanadium Dioxide Powder Market Share by Application (2020-2025)

Figure 36. Global Vanadium Dioxide Powder Market Share by Application in 2025

Figure 37. Global Vanadium Dioxide Powder Sales Growth Rate by Application (2020-2025)

Figure 38. Global Vanadium Dioxide Powder Sales Market Share by Region (2020-2025)

Figure 39. Global Vanadium Dioxide Powder Market Size by Region (2020-2025)

Figure 40. North America Vanadium Dioxide Powder Sales and Growth Rate (2020-2025) & (K MT)

Figure 41. North America Vanadium Dioxide Powder Sales and Growth Rate (2020-2025) & (K MT)

Figure 42. North America Vanadium Dioxide Powder Sales Market Share by Country in 2024

Figure 43. North America Vanadium Dioxide Powder Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Vanadium Dioxide Powder Market Size by Country in 2024

Figure 45. U.S. Vanadium Dioxide Powder Sales and Growth Rate (2020-2025) & (K MT)

Figure 46. U.S. Vanadium Dioxide Powder Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Vanadium Dioxide Powder Sales (K MT) and Growth Rate (2020-2025)

Figure 48. Canada Vanadium Dioxide Powder Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Vanadium Dioxide Powder Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Vanadium Dioxide Powder Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Vanadium Dioxide Powder Sales and Growth Rate (2020-2025) & (K MT)

Figure 52. Europe Vanadium Dioxide Powder Sales Market Share by Country in 2024

Figure 53. Europe Vanadium Dioxide Powder Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Vanadium Dioxide Powder Market Size by Country in 2024

Figure 55. Germany Vanadium Dioxide Powder Sales and Growth Rate (2020-2025) & (K MT)

Figure 56. Germany Vanadium Dioxide Powder Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Vanadium Dioxide Powder Sales and Growth Rate (2020-2025) & (K MT)

Figure 58. France Vanadium Dioxide Powder Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Vanadium Dioxide Powder Sales and Growth Rate (2020-2025) & (K MT)

Figure 60. U.K. Vanadium Dioxide Powder Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Vanadium Dioxide Powder Sales and Growth Rate (2020-2025) & (K MT)

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

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

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

Figure 65. Asia Pacific Vanadium Dioxide Powder Sales and Growth Rate (K MT)

Figure 66. Asia Pacific Vanadium Dioxide Powder Sales Market Share by Region in 2024

Figure 67. Asia Pacific Vanadium Dioxide Powder Market Size by Region in 2024

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

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

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

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

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

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

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

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

Figure 76. Southeast Asia Vanadium Dioxide Powder Sales and Growth Rate

(2020-2025) & (K MT)

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

Figure 78. South America Vanadium Dioxide Powder Sales and Growth Rate (K MT)

Figure 79. South America Vanadium Dioxide Powder Sales Market Share by Country in 2024

Figure 80. South America Vanadium Dioxide Powder Market Size and Growth Rate (M USD)

Figure 81. South America Vanadium Dioxide Powder Market Size by Country in 2024

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

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

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

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

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

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

Figure 88. Middle East and Africa Vanadium Dioxide Powder Sales and Growth Rate (K MT)

Figure 89. Middle East and Africa Vanadium Dioxide Powder Sales Market Share by Region in 2024

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

Figure 91. Middle East and Africa Vanadium Dioxide Powder Market Size by Region in 2024

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

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

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

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

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

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

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

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

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

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

Figure 102. Global Vanadium Dioxide Powder Production Market Share by Region (2020-2025)

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

Figure 104. Europe Vanadium Dioxide Powder Production (K MT) Growth Rate (2020-2025)

Figure 105. Japan Vanadium Dioxide Powder Production (K MT) Growth Rate (2020-2025)

Figure 106. China Vanadium Dioxide Powder Production (K MT) Growth Rate (2020-2025)

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

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

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

Figure 110. Global Vanadium Dioxide Powder Market Share Forecast by Type (2026-2035)

Figure 111. Global Vanadium Dioxide Powder Sales Forecast by Application (2026-2035)

Figure 112. Global Vanadium Dioxide Powder Market Share Forecast by Application (2026-2035)

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