

Global High-purity Vanadium Pentoxide Market Research Report 2025(Status and Outlook)

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Abstracts

Report Overview

High-purity vanadium pentoxide (V_2O_5) is a critical industrial chemical compound primarily used in the production of vanadium-based alloys, catalysts, and energy storage solutions, particularly vanadium redox flow batteries (VRFBs). It is characterized by its high purity levels, typically above 99.5%, ensuring minimal impurities that could affect performance in specialized applications. The compound is derived from vanadium-bearing ores or secondary sources like spent catalysts and slag, with refining processes including leaching, precipitation, and calcination to achieve the desired purity. Its versatility stems from its role in enhancing steel strength, enabling efficient sulfuric acid production, and serving as a key component in next-generation battery technologies. The market for high-purity vanadium pentoxide is driven by increasing demand for energy storage systems, infrastructure development requiring high-strength steel, and growing industrial applications, though it faces challenges such as price volatility and supply chain constraints due to limited primary vanadium sources. Geographically, production and consumption are concentrated in regions with strong steel and renewable energy sectors, including China, Russia, and North America.

The global High-purity Vanadium Pentoxide market size was estimated at USD 277.01 million in 2024 and is projected to grow at a compound annual growth rate (CAGR) of 3.20% during the forecast period.

This report provides a deep insight into the global High-purity Vanadium Pentoxide market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, SWOT analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the Global High-purity Vanadium Pentoxide Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the High-purity Vanadium Pentoxide market in any manner.

Global High-purity Vanadium Pentoxide Market: Market Segmentation Analysis

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

Key Company

U.S. Vanadium LLC
GfE
HBIS Group
Suzhou Donghua Fangui Co.Ltd.
Liaoyang Hengye Chemical Co., Ltd.
Hunan Huifeng High Energy Co., Ltd
Hunan Sanfeng Vanadium Industry Co., Ltd
BaiChuan Vanadium Industry

Market Segmentation (by Type)

Min.99.5% V₂O₅
Min.99% V₂O₅
Min.99.9% V₂O₅

Market Segmentation (by Application)

Metallurgy/Steelmaking
Chemical Catalyst
Vanadium Cell/VRB
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 High-purity Vanadium Pentoxide Market
Overview of the regional outlook of the High-purity Vanadium Pentoxide 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 High-purity Vanadium Pentoxide 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 High-purity Vanadium Pentoxide, 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 High-purity Vanadium Pentoxide
- 1.2 Key Market Segments
 - 1.2.1 High-purity Vanadium Pentoxide Segment by Type
 - 1.2.2 High-purity Vanadium Pentoxide 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 HIGH-PURITY VANADIUM PENTOXIDE MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global High-purity Vanadium Pentoxide Market Size (M USD) Estimates and Forecasts (2020-2033)
 - 2.1.2 Global High-purity Vanadium Pentoxide Sales Estimates and Forecasts (2020-2033)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 HIGH-PURITY VANADIUM PENTOXIDE MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global High-purity Vanadium Pentoxide Product Life Cycle
- 3.3 Global High-purity Vanadium Pentoxide Sales by Manufacturers (2020-2025)
- 3.4 Global High-purity Vanadium Pentoxide Revenue Market Share by Manufacturers (2020-2025)
- 3.5 High-purity Vanadium Pentoxide Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global High-purity Vanadium Pentoxide Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 High-purity Vanadium Pentoxide Market Competitive Situation and Trends
 - 3.8.1 High-purity Vanadium Pentoxide Market Concentration Rate

3.8.2 Global 5 and 10 Largest High-purity Vanadium Pentoxide Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 HIGH-PURITY VANADIUM PENTOXIDE INDUSTRY CHAIN ANALYSIS

4.1 High-purity Vanadium Pentoxide 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 HIGH-PURITY VANADIUM PENTOXIDE 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 High-purity Vanadium Pentoxide 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 High-purity Vanadium Pentoxide Market

5.7 ESG Ratings of Leading Companies

6 HIGH-PURITY VANADIUM PENTOXIDE MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global High-purity Vanadium Pentoxide Sales Market Share by Type (2020-2025)

6.3 Global High-purity Vanadium Pentoxide Market Size Market Share by Type

(2020-2025)

6.4 Global High-purity Vanadium Pentoxide Price by Type (2020-2025)

7 HIGH-PURITY VANADIUM PENTOXIDE MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global High-purity Vanadium Pentoxide Market Sales by Application (2020-2025)

7.3 Global High-purity Vanadium Pentoxide Market Size (M USD) by Application (2020-2025)

7.4 Global High-purity Vanadium Pentoxide Sales Growth Rate by Application (2020-2025)

8 HIGH-PURITY VANADIUM PENTOXIDE MARKET SALES BY REGION

8.1 Global High-purity Vanadium Pentoxide Sales by Region

8.1.1 Global High-purity Vanadium Pentoxide Sales by Region

8.1.2 Global High-purity Vanadium Pentoxide Sales Market Share by Region

8.2 Global High-purity Vanadium Pentoxide Market Size by Region

8.2.1 Global High-purity Vanadium Pentoxide Market Size by Region

8.2.2 Global High-purity Vanadium Pentoxide Market Size Market Share by Region

8.3 North America

8.3.1 North America High-purity Vanadium Pentoxide Sales by Country

8.3.2 North America High-purity Vanadium Pentoxide 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 High-purity Vanadium Pentoxide Sales by Country

8.4.2 Europe High-purity Vanadium Pentoxide 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 High-purity Vanadium Pentoxide Sales by Region

8.5.2 Asia Pacific High-purity Vanadium Pentoxide 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 High-purity Vanadium Pentoxide Sales by Country
 - 8.6.2 South America High-purity Vanadium Pentoxide 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 High-purity Vanadium Pentoxide Sales by Region
 - 8.7.2 Middle East and Africa High-purity Vanadium Pentoxide 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 HIGH-PURITY VANADIUM PENTOXIDE MARKET PRODUCTION BY REGION

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

9.7 China High-purity Vanadium Pentoxide Production (2020-2025)

9.7.1 China High-purity Vanadium Pentoxide Production Growth Rate (2020-2025)

9.7.2 China High-purity Vanadium Pentoxide Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 U.S. Vanadium LLC

10.1.1 U.S. Vanadium LLC Basic Information

10.1.2 U.S. Vanadium LLC High-purity Vanadium Pentoxide Product Overview

10.1.3 U.S. Vanadium LLC High-purity Vanadium Pentoxide Product Market

Performance

10.1.4 U.S. Vanadium LLC Business Overview

10.1.5 U.S. Vanadium LLC SWOT Analysis

10.1.6 U.S. Vanadium LLC Recent Developments

10.2 GfE

10.2.1 GfE Basic Information

10.2.2 GfE High-purity Vanadium Pentoxide Product Overview

10.2.3 GfE High-purity Vanadium Pentoxide Product Market Performance

10.2.4 GfE Business Overview

10.2.5 GfE SWOT Analysis

10.2.6 GfE Recent Developments

10.3 HBIS Group

10.3.1 HBIS Group Basic Information

10.3.2 HBIS Group High-purity Vanadium Pentoxide Product Overview

10.3.3 HBIS Group High-purity Vanadium Pentoxide Product Market Performance

10.3.4 HBIS Group Business Overview

10.3.5 HBIS Group SWOT Analysis

10.3.6 HBIS Group Recent Developments

10.4 Suzhou Donghua Fangui Co.Ltd.

10.4.1 Suzhou Donghua Fangui Co.Ltd. Basic Information

10.4.2 Suzhou Donghua Fangui Co.Ltd. High-purity Vanadium Pentoxide Product Overview

10.4.3 Suzhou Donghua Fangui Co.Ltd. High-purity Vanadium Pentoxide Product

Market Performance

10.4.4 Suzhou Donghua Fangui Co.Ltd. Business Overview

10.4.5 Suzhou Donghua Fangui Co.Ltd. Recent Developments

10.5 Liaoyang Hengye Chemical Co., Ltd.

10.5.1 Liaoyang Hengye Chemical Co., Ltd. Basic Information

10.5.2 Liaoyang Hengye Chemical Co., Ltd. High-purity Vanadium Pentoxide Product Overview

10.5.3 Liaoyang Hengye Chemical Co., Ltd. High-purity Vanadium Pentoxide Product Market Performance

10.5.4 Liaoyang Hengye Chemical Co., Ltd. Business Overview

10.5.5 Liaoyang Hengye Chemical Co., Ltd. Recent Developments

10.6 Hunan Huifeng High Energy Co., Ltd

10.6.1 Hunan Huifeng High Energy Co., Ltd Basic Information

10.6.2 Hunan Huifeng High Energy Co., Ltd High-purity Vanadium Pentoxide Product Overview

10.6.3 Hunan Huifeng High Energy Co., Ltd High-purity Vanadium Pentoxide Product Market Performance

10.6.4 Hunan Huifeng High Energy Co., Ltd Business Overview

10.6.5 Hunan Huifeng High Energy Co., Ltd Recent Developments

10.7 Hunan Sanfeng Vanadium Industry Co., Ltd

10.7.1 Hunan Sanfeng Vanadium Industry Co., Ltd Basic Information

10.7.2 Hunan Sanfeng Vanadium Industry Co., Ltd High-purity Vanadium Pentoxide Product Overview

10.7.3 Hunan Sanfeng Vanadium Industry Co., Ltd High-purity Vanadium Pentoxide Product Market Performance

10.7.4 Hunan Sanfeng Vanadium Industry Co., Ltd Business Overview

10.7.5 Hunan Sanfeng Vanadium Industry Co., Ltd Recent Developments

10.8 BaiChuan Vanadium Industry

10.8.1 BaiChuan Vanadium Industry Basic Information

10.8.2 BaiChuan Vanadium Industry High-purity Vanadium Pentoxide Product Overview

10.8.3 BaiChuan Vanadium Industry High-purity Vanadium Pentoxide Product Market Performance

10.8.4 BaiChuan Vanadium Industry Business Overview

10.8.5 BaiChuan Vanadium Industry Recent Developments

11 HIGH-PURITY VANADIUM PENTOXIDE MARKET FORECAST BY REGION

11.1 Global High-purity Vanadium Pentoxide Market Size Forecast

11.2 Global High-purity Vanadium Pentoxide Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe High-purity Vanadium Pentoxide Market Size Forecast by Country

11.2.3 Asia Pacific High-purity Vanadium Pentoxide Market Size Forecast by Region

11.2.4 South America High-purity Vanadium Pentoxide Market Size Forecast by

Country

11.2.5 Middle East and Africa Forecasted Sales of High-purity Vanadium Pentoxide by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2033)

12.1 Global High-purity Vanadium Pentoxide Market Forecast by Type (2026-2033)

12.1.1 Global Forecasted Sales of High-purity Vanadium Pentoxide by Type (2026-2033)

12.1.2 Global High-purity Vanadium Pentoxide Market Size Forecast by Type (2026-2033)

12.1.3 Global Forecasted Price of High-purity Vanadium Pentoxide by Type (2026-2033)

12.2 Global High-purity Vanadium Pentoxide Market Forecast by Application (2026-2033)

12.2.1 Global High-purity Vanadium Pentoxide Sales (K MT) Forecast by Application

12.2.2 Global High-purity Vanadium Pentoxide Market Size (M USD) Forecast by Application (2026-2033)

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. Market Size (M USD) Segment Executive Summary

Table 4. High-purity Vanadium Pentoxide Market Size Comparison by Region (M USD)

Table 5. Global High-purity Vanadium Pentoxide Sales (K MT) by Manufacturers (2020-2025)

Table 6. Global High-purity Vanadium Pentoxide Sales Market Share by Manufacturers (2020-2025)

Table 7. Global High-purity Vanadium Pentoxide Revenue (M USD) by Manufacturers (2020-2025)

Table 8. Global High-purity Vanadium Pentoxide Revenue Share by Manufacturers (2020-2025)

Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in High-purity Vanadium Pentoxide as of 2024)

Table 10. Global Market High-purity Vanadium Pentoxide Average Price (USD/KG) of Key Manufacturers (2020-2025)

Table 11. Manufacturers? Manufacturing Sites, Areas Served

Table 12. Manufacturers? Product Type

Table 13. Global High-purity Vanadium Pentoxide Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 14. Mergers & Acquisitions, Expansion Plans

Table 15. Market Overview of Key Raw Materials

Table 16. Midstream Market Analysis

Table 17. Downstream Customer Analysis

Table 18. Key Development Trends

Table 19. Driving Factors

Table 20. High-purity Vanadium Pentoxide Market Challenges

Table 21. Goldman Sachs' forecast real GDP growth rate for 2024-2026

Table 22. S&P Global ' Forecast Real GDP Growth Rate For 2024-2027

Table 23. World Bank ' Forecast Real GDP Growth Rate For 2024-2026

Table 24. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 25. Global High-purity Vanadium Pentoxide Sales by Type (K MT)

Table 26. Global High-purity Vanadium Pentoxide Market Size by Type (M USD)

Table 27. Global High-purity Vanadium Pentoxide Sales (K MT) by Type (2020-2025)

- Table 28. Global High-purity Vanadium Pentoxide Sales Market Share by Type (2020-2025)
- Table 29. Global High-purity Vanadium Pentoxide Market Size (M USD) by Type (2020-2025)
- Table 30. Global High-purity Vanadium Pentoxide Market Size Share by Type (2020-2025)
- Table 31. Global High-purity Vanadium Pentoxide Price (USD/KG) by Type (2020-2025)
- Table 32. Global High-purity Vanadium Pentoxide Sales (K MT) by Application
- Table 33. Global High-purity Vanadium Pentoxide Market Size by Application
- Table 34. Global High-purity Vanadium Pentoxide Sales by Application (2020-2025) & (K MT)
- Table 35. Global High-purity Vanadium Pentoxide Sales Market Share by Application (2020-2025)
- Table 36. Global High-purity Vanadium Pentoxide Market Size by Application (2020-2025) & (M USD)
- Table 37. Global High-purity Vanadium Pentoxide Market Share by Application (2020-2025)
- Table 38. Global High-purity Vanadium Pentoxide Sales Growth Rate by Application (2020-2025)
- Table 39. Global High-purity Vanadium Pentoxide Sales by Region (2020-2025) & (K MT)
- Table 40. Global High-purity Vanadium Pentoxide Sales Market Share by Region (2020-2025)
- Table 41. Global High-purity Vanadium Pentoxide Market Size by Region (2020-2025) & (M USD)
- Table 42. Global High-purity Vanadium Pentoxide Market Size Market Share by Region (2020-2025)
- Table 43. North America High-purity Vanadium Pentoxide Sales by Country (2020-2025) & (K MT)
- Table 44. North America High-purity Vanadium Pentoxide Market Size by Country (2020-2025) & (M USD)
- Table 45. Europe High-purity Vanadium Pentoxide Sales by Country (2020-2025) & (K MT)
- Table 46. Europe High-purity Vanadium Pentoxide Market Size by Country (2020-2025) & (M USD)
- Table 47. Asia Pacific High-purity Vanadium Pentoxide Sales by Region (2020-2025) & (K MT)
- Table 48. Asia Pacific High-purity Vanadium Pentoxide Market Size by Region (2020-2025) & (M USD)

- Table 49. South America High-purity Vanadium Pentoxide Sales by Country (2020-2025) & (K MT)
- Table 50. South America High-purity Vanadium Pentoxide Market Size by Country (2020-2025) & (M USD)
- Table 51. Middle East and Africa High-purity Vanadium Pentoxide Sales by Region (2020-2025) & (K MT)
- Table 52. Middle East and Africa High-purity Vanadium Pentoxide Market Size by Region (2020-2025) & (M USD)
- Table 53. Global High-purity Vanadium Pentoxide Production (K MT) by Region(2020-2025)
- Table 54. Global High-purity Vanadium Pentoxide Revenue (US\$ Million) by Region (2020-2025)
- Table 55. Global High-purity Vanadium Pentoxide Revenue Market Share by Region (2020-2025)
- Table 56. Global High-purity Vanadium Pentoxide Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 57. North America High-purity Vanadium Pentoxide Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 58. Europe High-purity Vanadium Pentoxide Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 59. Japan High-purity Vanadium Pentoxide Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 60. China High-purity Vanadium Pentoxide Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 61. U.S. Vanadium LLC Basic Information
- Table 62. U.S. Vanadium LLC High-purity Vanadium Pentoxide Product Overview
- Table 63. U.S. Vanadium LLC High-purity Vanadium Pentoxide Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 64. U.S. Vanadium LLC Business Overview
- Table 65. U.S. Vanadium LLC SWOT Analysis
- Table 66. U.S. Vanadium LLC Recent Developments
- Table 67. GfE Basic Information
- Table 68. GfE High-purity Vanadium Pentoxide Product Overview
- Table 69. GfE High-purity Vanadium Pentoxide Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 70. GfE Business Overview
- Table 71. GfE SWOT Analysis
- Table 72. GfE Recent Developments
- Table 73. HBIS Group Basic Information

- Table 74. HBIS Group High-purity Vanadium Pentoxide Product Overview
- Table 75. HBIS Group High-purity Vanadium Pentoxide Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 76. HBIS Group Business Overview
- Table 77. HBIS Group SWOT Analysis
- Table 78. HBIS Group Recent Developments
- Table 79. Suzhou Donghua Fangui Co.Ltd. Basic Information
- Table 80. Suzhou Donghua Fangui Co.Ltd. High-purity Vanadium Pentoxide Product Overview
- Table 81. Suzhou Donghua Fangui Co.Ltd. High-purity Vanadium Pentoxide Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 82. Suzhou Donghua Fangui Co.Ltd. Business Overview
- Table 83. Suzhou Donghua Fangui Co.Ltd. Recent Developments
- Table 84. Liaoyang Hengye Chemical Co., Ltd. Basic Information
- Table 85. Liaoyang Hengye Chemical Co., Ltd. High-purity Vanadium Pentoxide Product Overview
- Table 86. Liaoyang Hengye Chemical Co., Ltd. High-purity Vanadium Pentoxide Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 87. Liaoyang Hengye Chemical Co., Ltd. Business Overview
- Table 88. Liaoyang Hengye Chemical Co., Ltd. Recent Developments
- Table 89. Hunan Huifeng High Energy Co., Ltd Basic Information
- Table 90. Hunan Huifeng High Energy Co., Ltd High-purity Vanadium Pentoxide Product Overview
- Table 91. Hunan Huifeng High Energy Co., Ltd High-purity Vanadium Pentoxide Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 92. Hunan Huifeng High Energy Co., Ltd Business Overview
- Table 93. Hunan Huifeng High Energy Co., Ltd Recent Developments
- Table 94. Hunan Sanfeng Vanadium Industry Co., Ltd Basic Information
- Table 95. Hunan Sanfeng Vanadium Industry Co., Ltd High-purity Vanadium Pentoxide Product Overview
- Table 96. Hunan Sanfeng Vanadium Industry Co., Ltd High-purity Vanadium Pentoxide Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 97. Hunan Sanfeng Vanadium Industry Co., Ltd Business Overview
- Table 98. Hunan Sanfeng Vanadium Industry Co., Ltd Recent Developments
- Table 99. BaiChuan Vanadium Industry Basic Information
- Table 100. BaiChuan Vanadium Industry High-purity Vanadium Pentoxide Product Overview
- Table 101. BaiChuan Vanadium Industry High-purity Vanadium Pentoxide Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 102. BaiChuan Vanadium Industry Business Overview

Table 103. BaiChuan Vanadium Industry Recent Developments

Table 104. Global High-purity Vanadium Pentoxide Sales Forecast by Region (2026-2033) & (K MT)

Table 105. Global High-purity Vanadium Pentoxide Market Size Forecast by Region (2026-2033) & (M USD)

Table 106. North America High-purity Vanadium Pentoxide Sales Forecast by Country (2026-2033) & (K MT)

Table 107. North America High-purity Vanadium Pentoxide Market Size Forecast by Country (2026-2033) & (M USD)

Table 108. Europe High-purity Vanadium Pentoxide Sales Forecast by Country (2026-2033) & (K MT)

Table 109. Europe High-purity Vanadium Pentoxide Market Size Forecast by Country (2026-2033) & (M USD)

Table 110. Asia Pacific High-purity Vanadium Pentoxide Sales Forecast by Region (2026-2033) & (K MT)

Table 111. Asia Pacific High-purity Vanadium Pentoxide Market Size Forecast by Region (2026-2033) & (M USD)

Table 112. South America High-purity Vanadium Pentoxide Sales Forecast by Country (2026-2033) & (K MT)

Table 113. South America High-purity Vanadium Pentoxide Market Size Forecast by Country (2026-2033) & (M USD)

Table 114. Middle East and Africa High-purity Vanadium Pentoxide Sales Forecast by Country (2026-2033) & (Units)

Table 115. Middle East and Africa High-purity Vanadium Pentoxide Market Size Forecast by Country (2026-2033) & (M USD)

Table 116. Global High-purity Vanadium Pentoxide Sales Forecast by Type (2026-2033) & (K MT)

Table 117. Global High-purity Vanadium Pentoxide Market Size Forecast by Type (2026-2033) & (M USD)

Table 118. Global High-purity Vanadium Pentoxide Price Forecast by Type (2026-2033) & (USD/KG)

Table 119. Global High-purity Vanadium Pentoxide Sales (K MT) Forecast by Application (2026-2033)

Table 120. Global High-purity Vanadium Pentoxide Market Size Forecast by Application (2026-2033) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of High-purity Vanadium Pentoxide
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global High-purity Vanadium Pentoxide Market Size (M USD), 2024-2033
- Figure 5. Global High-purity Vanadium Pentoxide Market Size (M USD) (2020-2033)
- Figure 6. Global High-purity Vanadium Pentoxide Sales (K MT) & (2020-2033)
- 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. High-purity Vanadium Pentoxide Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global High-purity Vanadium Pentoxide Product Life Cycle
- Figure 13. High-purity Vanadium Pentoxide Sales Share by Manufacturers in 2024
- Figure 14. Global High-purity Vanadium Pentoxide Revenue Share by Manufacturers in 2024
- Figure 15. High-purity Vanadium Pentoxide Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2024
- Figure 16. Global Market High-purity Vanadium Pentoxide Average Price (USD/KG) of Key Manufacturers in 2024
- Figure 17. The Global 5 and 10 Largest Players: Market Share by High-purity Vanadium Pentoxide Revenue in 2024
- Figure 18. Industry Chain Map of High-purity Vanadium Pentoxide
- Figure 19. Global High-purity Vanadium Pentoxide Market PEST Analysis
- Figure 20. Global High-purity Vanadium Pentoxide 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 High-purity Vanadium Pentoxide Market Share by Type
- Figure 27. Sales Market Share of High-purity Vanadium Pentoxide by Type (2020-2025)
- Figure 28. Sales Market Share of High-purity Vanadium Pentoxide by Type in 2024
- Figure 29. Market Size Share of High-purity Vanadium Pentoxide by Type (2020-2025)
- Figure 30. Market Size Share of High-purity Vanadium Pentoxide by Type in 2024
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global High-purity Vanadium Pentoxide Market Share by Application

Figure 33. Global High-purity Vanadium Pentoxide Sales Market Share by Application (2020-2025)

Figure 34. Global High-purity Vanadium Pentoxide Sales Market Share by Application in 2024

Figure 35. Global High-purity Vanadium Pentoxide Market Share by Application (2020-2025)

Figure 36. Global High-purity Vanadium Pentoxide Market Share by Application in 2024

Figure 37. Global High-purity Vanadium Pentoxide Sales Growth Rate by Application (2020-2025)

Figure 38. Global High-purity Vanadium Pentoxide Sales Market Share by Region (2020-2025)

Figure 39. Global High-purity Vanadium Pentoxide Market Size Market Share by Region (2020-2025)

Figure 40. North America High-purity Vanadium Pentoxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 41. North America High-purity Vanadium Pentoxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 42. North America High-purity Vanadium Pentoxide Sales Market Share by Country in 2024

Figure 43. North America High-purity Vanadium Pentoxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America High-purity Vanadium Pentoxide Market Size Market Share by Country in 2024

Figure 45. U.S. High-purity Vanadium Pentoxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 46. U.S. High-purity Vanadium Pentoxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada High-purity Vanadium Pentoxide Sales (K MT) and Growth Rate (2020-2025)

Figure 48. Canada High-purity Vanadium Pentoxide Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico High-purity Vanadium Pentoxide Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico High-purity Vanadium Pentoxide Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe High-purity Vanadium Pentoxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 52. Europe High-purity Vanadium Pentoxide Sales Market Share by Country in

2024

Figure 53. Europe High-purity Vanadium Pentoxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe High-purity Vanadium Pentoxide Market Size Market Share by Country in 2024

Figure 55. Germany High-purity Vanadium Pentoxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 56. Germany High-purity Vanadium Pentoxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France High-purity Vanadium Pentoxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 58. France High-purity Vanadium Pentoxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. High-purity Vanadium Pentoxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 60. U.K. High-purity Vanadium Pentoxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy High-purity Vanadium Pentoxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 62. Italy High-purity Vanadium Pentoxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain High-purity Vanadium Pentoxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 64. Spain High-purity Vanadium Pentoxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific High-purity Vanadium Pentoxide Sales and Growth Rate (K MT)

Figure 66. Asia Pacific High-purity Vanadium Pentoxide Sales Market Share by Region in 2024

Figure 67. Asia Pacific High-purity Vanadium Pentoxide Market Size Market Share by Region in 2024

Figure 68. China High-purity Vanadium Pentoxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 69. China High-purity Vanadium Pentoxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan High-purity Vanadium Pentoxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 71. Japan High-purity Vanadium Pentoxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea High-purity Vanadium Pentoxide Sales and Growth Rate

(2020-2025) & (K MT)

Figure 73. South Korea High-purity Vanadium Pentoxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India High-purity Vanadium Pentoxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 75. India High-purity Vanadium Pentoxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia High-purity Vanadium Pentoxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 77. Southeast Asia High-purity Vanadium Pentoxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America High-purity Vanadium Pentoxide Sales and Growth Rate (K MT)

Figure 79. South America High-purity Vanadium Pentoxide Sales Market Share by Country in 2024

Figure 80. South America High-purity Vanadium Pentoxide Market Size and Growth Rate (M USD)

Figure 81. South America High-purity Vanadium Pentoxide Market Size Market Share by Country in 2024

Figure 82. Brazil High-purity Vanadium Pentoxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 83. Brazil High-purity Vanadium Pentoxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina High-purity Vanadium Pentoxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 85. Argentina High-purity Vanadium Pentoxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia High-purity Vanadium Pentoxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 87. Columbia High-purity Vanadium Pentoxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa High-purity Vanadium Pentoxide Sales and Growth Rate (K MT)

Figure 89. Middle East and Africa High-purity Vanadium Pentoxide Sales Market Share by Region in 2024

Figure 90. Middle East and Africa High-purity Vanadium Pentoxide Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa High-purity Vanadium Pentoxide Market Size Market Share by Region in 2024

Figure 92. Saudi Arabia High-purity Vanadium Pentoxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 93. Saudi Arabia High-purity Vanadium Pentoxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE High-purity Vanadium Pentoxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 95. UAE High-purity Vanadium Pentoxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt High-purity Vanadium Pentoxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 97. Egypt High-purity Vanadium Pentoxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria High-purity Vanadium Pentoxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 99. Nigeria High-purity Vanadium Pentoxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa High-purity Vanadium Pentoxide Sales and Growth Rate (2020-2025) & (K MT)

Figure 101. South Africa High-purity Vanadium Pentoxide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global High-purity Vanadium Pentoxide Production Market Share by Region (2020-2025)

Figure 103. North America High-purity Vanadium Pentoxide Production (K MT) Growth Rate (2020-2025)

Figure 104. Europe High-purity Vanadium Pentoxide Production (K MT) Growth Rate (2020-2025)

Figure 105. Japan High-purity Vanadium Pentoxide Production (K MT) Growth Rate (2020-2025)

Figure 106. China High-purity Vanadium Pentoxide Production (K MT) Growth Rate (2020-2025)

Figure 107. Global High-purity Vanadium Pentoxide Sales Forecast by Volume (2020-2033) & (K MT)

Figure 108. Global High-purity Vanadium Pentoxide Market Size Forecast by Value (2020-2033) & (M USD)

Figure 109. Global High-purity Vanadium Pentoxide Sales Market Share Forecast by Type (2026-2033)

Figure 110. Global High-purity Vanadium Pentoxide Market Share Forecast by Type (2026-2033)

Figure 111. Global High-purity Vanadium Pentoxide Sales Forecast by Application

(2026-2033)

Figure 112. Global High-purity Vanadium Pentoxide Market Share Forecast by Application (2026-2033)

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