

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

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## Abstracts

The global Vanadium market size is expected to reach \$ 4593 million by 2032, rising at a market growth of 6.8% CAGR during the forecast period (2026-2032).

Vanadium, hard, silvery-grey metallic element used primarily as an alloying agent to enhance strength, corrosion resistance, and heat tolerance of steels and superalloys. As a strategic metal, vanadium is essential in aerospace components, high-strength low-alloy steels (HSLA), tools, catalysts, pigments, and emerging energy-storage technologies such as vanadium redox flow batteries (VRFBs). It is typically produced from vanadium-bearing ores (vanadinite, carnotite), titanomagnetite slags, and petroleum residues, and is supplied in various chemical, alloying, and high-purity metallic forms for industrial and advanced technology applications.

The industry chain for Vanadium begins with upstream mining of vanadium-bearing ores, extraction from titanomagnetite slags, and secondary recovery from petroleum residues; continues through midstream processing steps including  $V_2O_5$  production, purification, metallothermic reduction, alloying, powder processing, and high-purity refining; and reaches downstream sectors such as steelmakers, aerospace alloy users, catalyst suppliers, VRFB energy-storage providers, semiconductor fabs, pigment manufacturers, and advanced-materials companies, which integrate vanadium metal into high-strength alloys, industrial catalysts, energy systems, and technology products across global markets.

Current global projects include expansions of titanomagnetite-based vanadium extraction facilities in China, new primary vanadium mining developments in South Africa and Brazil, refinery upgrades for high-purity vanadium production in the U.S. and Japan, VRFB-related vanadium electrolyte projects in Europe and Australia, joint ventures between mining firms and battery integrators, and multiple early-stage R&D initiatives targeting nuclear-grade and ultra-high-purity vanadium for aerospace and fusion applications, scheduled for commissioning between 2025 and 2030 as demand

for strategic metals escalates.

2025 Global Market sales Volume: 110,000 tons, Average Global Market Price: USD 26,000 per ton, Market Average Gross Profit Margin: 22%.

The global vanadium market is experiencing structural change driven by traditional steel demand and emerging energy-storage requirements. Steel alloys remain the dominant consumption sector, but growth is moderate and linked to construction, infrastructure, and automotive activity. In contrast, vanadium redox flow batteries (VRFBs) are creating a new, long-term demand driver associated with renewable-energy storage deployment. Regionally, China controls the majority of global vanadium supply, supported by large titanomagnetite resources and integrated steel production. South Africa and Russia are also important producers, though geopolitical and operational challenges affect output stability. North America and Europe are increasingly focused on securing domestic supply due to strategic-metal dependency concerns.

Key opportunities include VRFB electrolyte production, ultra-high-purity vanadium for aerospace and fusion research, and recycling technologies that recover vanadium from petroleum residues and spent catalysts. Risks include price volatility linked to steel cycles, concentration of supply in a few countries, and regulatory uncertainty for new mining projects.

Market trends show a gradual shift toward high-purity vanadium for advanced alloys and technology applications.

Overall, the market is transitioning from a steel-dominated commodity segment to a diversified strategic-material ecosystem with growing links to clean-energy and high-technology industries.

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

This report is a detailed and comprehensive analysis of the world market for Vanadium and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Vanadium that contribute to its increasing demand across many markets.

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

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

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

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

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

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

Global Vanadium production by manufacturer, production, price, value and market

share 2021-2026, (USD Million) & (Kilotons)

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

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

This report profiles key players in the global Vanadium market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Pangang Group Vanadium and Titanium Resources Co.,Ltd., Evraz, Hesteel Group, Beijing Jianlong Heavy Industry Group Co., Ltd., Treibacher Industrie, Glencore, Desheng Group, Largo Inc., Bushveld Minerals, U.S. Vanadium, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Vanadium market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Vanadium Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Vanadium Market, Segmentation by Type:

Vanadium Titanium Magnetite

Vanadium-containing Secondary Resource

Vanadium Slag

### Global Vanadium Market, Segmentation by Production Route:

Primary Mining Extraction

Secondary Source Recovery

Others

### Global Vanadium Market, Segmentation by Purity Grade:

Industrial-grade (95%-99%)

High-purity (99.5%-99.9%)

Ultra-high-purity (4N-5N)

### Global Vanadium Market, Segmentation by Application:

Steel Industry

Chemical Industry

Vanadium Alloys

Energy Storage

**Companies Profiled:**

Pangang Group Vanadium and Titanium Resources Co.,Ltd.

Evraz

Hesteel Group

Beijing Jianlong Heavy Industry Group Co., Ltd.

Treibacher Industrie

Glencore

Desheng Group

Largo Inc.

Bushveld Minerals

U.S. Vanadium

Shaanxi Youser

**Key Questions Answered:**

1. How big is the global Vanadium market?
2. What is the demand of the global Vanadium market?
3. What is the year over year growth of the global Vanadium market?
4. What is the production and production value of the global Vanadium market?
5. Who are the key producers in the global Vanadium market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Vanadium Introduction
- 1.2 World Vanadium Supply & Forecast
  - 1.2.1 World Vanadium Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Vanadium Production (2021-2032)
  - 1.2.3 World Vanadium Pricing Trends (2021-2032)
- 1.3 World Vanadium Production by Region (Based on Production Site)
  - 1.3.1 World Vanadium Production Value by Region (2021-2032)
  - 1.3.2 World Vanadium Production by Region (2021-2032)
  - 1.3.3 World Vanadium Average Price by Region (2021-2032)
  - 1.3.4 China Vanadium Production (2021-2032)
  - 1.3.5 Europe Vanadium Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Vanadium Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Vanadium Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Vanadium Demand (2021-2032)
- 2.2 World Vanadium Consumption by Region
  - 2.2.1 World Vanadium Consumption by Region (2021-2026)
  - 2.2.2 World Vanadium Consumption Forecast by Region (2027-2032)
- 2.3 United States Vanadium Consumption (2021-2032)
- 2.4 China Vanadium Consumption (2021-2032)
- 2.5 Europe Vanadium Consumption (2021-2032)
- 2.6 Japan Vanadium Consumption (2021-2032)
- 2.7 South Korea Vanadium Consumption (2021-2032)
- 2.8 ASEAN Vanadium Consumption (2021-2032)
- 2.9 India Vanadium Consumption (2021-2032)

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Vanadium Production Value by Manufacturer (2021-2026)
- 3.2 World Vanadium Production by Manufacturer (2021-2026)
- 3.3 World Vanadium Average Price by Manufacturer (2021-2026)

- 3.4 Vanadium Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Vanadium Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Vanadium in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Vanadium in 2025
- 3.6 Vanadium Market: Overall Company Footprint Analysis
  - 3.6.1 Vanadium Market: Region Footprint
  - 3.6.2 Vanadium Market: Company Product Type Footprint
  - 3.6.3 Vanadium Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

## **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: Vanadium Production Value Comparison
  - 4.1.1 United States VS China: Vanadium Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Vanadium Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Vanadium Production Comparison
  - 4.2.1 United States VS China: Vanadium Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Vanadium Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Vanadium Consumption Comparison
  - 4.3.1 United States VS China: Vanadium Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: Vanadium Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Vanadium Manufacturers and Market Share, 2021-2026
  - 4.4.1 United States Based Vanadium Manufacturers, Headquarters and Production Site (States, Country)
  - 4.4.2 United States Based Manufacturers Vanadium Production Value (2021-2026)
  - 4.4.3 United States Based Manufacturers Vanadium Production (2021-2026)
- 4.5 China Based Vanadium Manufacturers and Market Share

4.5.1 China Based Vanadium Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Vanadium Production Value (2021-2026)

4.5.3 China Based Manufacturers Vanadium Production (2021-2026)

4.6 Rest of World Based Vanadium Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Vanadium Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Vanadium Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Vanadium Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Vanadium Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Vanadium Titanium Magnetite

5.2.2 Vanadium-containing Secondary Resource

5.2.3 Vanadium Slag

5.3 Market Segment by Type

5.3.1 World Vanadium Production by Type (2021-2032)

5.3.2 World Vanadium Production Value by Type (2021-2032)

5.3.3 World Vanadium Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY PRODUCTION ROUTE**

6.1 World Vanadium Market Size Overview by Production Route: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Production Route

6.2.1 Primary Mining Extraction

6.2.2 Secondary Source Recovery

6.2.3 Others

6.3 Market Segment by Production Route

6.3.1 World Vanadium Production by Production Route (2021-2032)

6.3.2 World Vanadium Production Value by Production Route (2021-2032)

6.3.3 World Vanadium Average Price by Production Route (2021-2032)

## **7 MARKET ANALYSIS BY PURITY GRADE**

7.1 World Vanadium Market Size Overview by Purity Grade: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Purity Grade

- 7.2.1 Industrial-grade (95%-99%)
- 7.2.2 High-purity (99.5%-99.9%)
- 7.2.3 Ultra-high-purity (4N-5N)
- 7.3 Market Segment by Purity Grade
  - 7.3.1 World Vanadium Production by Purity Grade (2021-2032)
  - 7.3.2 World Vanadium Production Value by Purity Grade (2021-2032)
  - 7.3.3 World Vanadium Average Price by Purity Grade (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

- 8.1 World Vanadium Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
  - 8.2.1 Steel Industry
  - 8.2.2 Chemical Industry
  - 8.2.3 Vanadium Alloys
  - 8.2.4 Energy Storage
- 8.3 Market Segment by Application
  - 8.3.1 World Vanadium Production by Application (2021-2032)
  - 8.3.2 World Vanadium Production Value by Application (2021-2032)
  - 8.3.3 World Vanadium Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

- 9.1 Pangang Group Vanadium and Titanium Resources Co.,Ltd.
  - 9.1.1 Pangang Group Vanadium and Titanium Resources Co.,Ltd. Details
  - 9.1.2 Pangang Group Vanadium and Titanium Resources Co.,Ltd. Major Business
  - 9.1.3 Pangang Group Vanadium and Titanium Resources Co.,Ltd. Vanadium Product and Services
  - 9.1.4 Pangang Group Vanadium and Titanium Resources Co.,Ltd. Vanadium Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.1.5 Pangang Group Vanadium and Titanium Resources Co.,Ltd. Recent Developments/Updates
  - 9.1.6 Pangang Group Vanadium and Titanium Resources Co.,Ltd. Competitive Strengths & Weaknesses
- 9.2 Evraz
  - 9.2.1 Evraz Details
  - 9.2.2 Evraz Major Business
  - 9.2.3 Evraz Vanadium Product and Services
  - 9.2.4 Evraz Vanadium Production, Price, Value, Gross Margin and Market Share

(2021-2026)

9.2.5 Evraz Recent Developments/Updates

9.2.6 Evraz Competitive Strengths & Weaknesses

9.3 Hesteel Group

9.3.1 Hesteel Group Details

9.3.2 Hesteel Group Major Business

9.3.3 Hesteel Group Vanadium Product and Services

9.3.4 Hesteel Group Vanadium Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Hesteel Group Recent Developments/Updates

9.3.6 Hesteel Group Competitive Strengths & Weaknesses

9.4 Beijing Jianlong Heavy Industry Group Co., Ltd.

9.4.1 Beijing Jianlong Heavy Industry Group Co., Ltd. Details

9.4.2 Beijing Jianlong Heavy Industry Group Co., Ltd. Major Business

9.4.3 Beijing Jianlong Heavy Industry Group Co., Ltd. Vanadium Product and Services

9.4.4 Beijing Jianlong Heavy Industry Group Co., Ltd. Vanadium Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Beijing Jianlong Heavy Industry Group Co., Ltd. Recent Developments/Updates

9.4.6 Beijing Jianlong Heavy Industry Group Co., Ltd. Competitive Strengths & Weaknesses

9.5 Treibacher Industrie

9.5.1 Treibacher Industrie Details

9.5.2 Treibacher Industrie Major Business

9.5.3 Treibacher Industrie Vanadium Product and Services

9.5.4 Treibacher Industrie Vanadium Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Treibacher Industrie Recent Developments/Updates

9.5.6 Treibacher Industrie Competitive Strengths & Weaknesses

9.6 Glencore

9.6.1 Glencore Details

9.6.2 Glencore Major Business

9.6.3 Glencore Vanadium Product and Services

9.6.4 Glencore Vanadium Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Glencore Recent Developments/Updates

9.6.6 Glencore Competitive Strengths & Weaknesses

9.7 Desheng Group

9.7.1 Desheng Group Details

9.7.2 Desheng Group Major Business

- 9.7.3 Desheng Group Vanadium Product and Services
- 9.7.4 Desheng Group Vanadium Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.7.5 Desheng Group Recent Developments/Updates
- 9.7.6 Desheng Group Competitive Strengths & Weaknesses
- 9.8 Largo Inc.
  - 9.8.1 Largo Inc. Details
  - 9.8.2 Largo Inc. Major Business
  - 9.8.3 Largo Inc. Vanadium Product and Services
  - 9.8.4 Largo Inc. Vanadium Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 Largo Inc. Recent Developments/Updates
  - 9.8.6 Largo Inc. Competitive Strengths & Weaknesses
- 9.9 Bushveld Minerals
  - 9.9.1 Bushveld Minerals Details
  - 9.9.2 Bushveld Minerals Major Business
  - 9.9.3 Bushveld Minerals Vanadium Product and Services
  - 9.9.4 Bushveld Minerals Vanadium Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 Bushveld Minerals Recent Developments/Updates
  - 9.9.6 Bushveld Minerals Competitive Strengths & Weaknesses
- 9.10 U.S. Vanadium
  - 9.10.1 U.S. Vanadium Details
  - 9.10.2 U.S. Vanadium Major Business
  - 9.10.3 U.S. Vanadium Vanadium Product and Services
  - 9.10.4 U.S. Vanadium Vanadium Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.10.5 U.S. Vanadium Recent Developments/Updates
  - 9.10.6 U.S. Vanadium Competitive Strengths & Weaknesses
- 9.11 Shaanxi Youser
  - 9.11.1 Shaanxi Youser Details
  - 9.11.2 Shaanxi Youser Major Business
  - 9.11.3 Shaanxi Youser Vanadium Product and Services
  - 9.11.4 Shaanxi Youser Vanadium Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.11.5 Shaanxi Youser Recent Developments/Updates
  - 9.11.6 Shaanxi Youser Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 Vanadium Industry Chain
- 10.2 Vanadium Upstream Analysis
  - 10.2.1 Vanadium Core Raw Materials
  - 10.2.2 Main Manufacturers of Vanadium Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Vanadium Production Mode
- 10.6 Vanadium Procurement Model
- 10.7 Vanadium Industry Sales Model and Sales Channels
  - 10.7.1 Vanadium Sales Model
  - 10.7.2 Vanadium Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

- Table 1. World Vanadium Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Vanadium Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Vanadium Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Vanadium Production Value Market Share by Region (2021-2026)
- Table 5. World Vanadium Production Value Market Share by Region (2027-2032)
- Table 6. World Vanadium Production by Region (2021-2026) & (Kilotons)
- Table 7. World Vanadium Production by Region (2027-2032) & (Kilotons)
- Table 8. World Vanadium Production Market Share by Region (2021-2026)
- Table 9. World Vanadium Production Market Share by Region (2027-2032)
- Table 10. World Vanadium Average Price by Region (2021-2026) & (US\$/Ton)
- Table 11. World Vanadium Average Price by Region (2027-2032) & (US\$/Ton)
- Table 12. Vanadium Major Market Trends
- Table 13. World Vanadium Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Kilotons)
- Table 14. World Vanadium Consumption by Region (2021-2026) & (Kilotons)
- Table 15. World Vanadium Consumption Forecast by Region (2027-2032) & (Kilotons)
- Table 16. World Vanadium Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Vanadium Producers in 2025
- Table 18. World Vanadium Production by Manufacturer (2021-2026) & (Kilotons)
- Table 19. Production Market Share of Key Vanadium Producers in 2025
- Table 20. World Vanadium Average Price by Manufacturer (2021-2026) & (US\$/Ton)
- Table 21. Global Vanadium Company Evaluation Quadrant
- Table 22. World Vanadium Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and Vanadium Production Site of Key Manufacturer
- Table 24. Vanadium Market: Company Product Type Footprint
- Table 25. Vanadium Market: Company Product Application Footprint
- Table 26. Vanadium Competitive Factors
- Table 27. Vanadium New Entrant and Capacity Expansion Plans
- Table 28. Vanadium Mergers & Acquisitions Activity
- Table 29. United States VS China Vanadium Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
- Table 30. United States VS China Vanadium Production Comparison, (2021 & 2025 &

2032) & (Kilotons)

Table 31. United States VS China Vanadium Consumption Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 32. United States Based Vanadium Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Vanadium Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Vanadium Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Vanadium Production (2021-2026) & (Kilotons)

Table 36. United States Based Manufacturers Vanadium Production Market Share (2021-2026)

Table 37. China Based Vanadium Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Vanadium Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Vanadium Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Vanadium Production, (2021-2026) & (Kilotons)

Table 41. China Based Manufacturers Vanadium Production Market Share (2021-2026)

Table 42. Rest of World Based Vanadium Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Vanadium Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Vanadium Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Vanadium Production, (2021-2026) & (Kilotons)

Table 46. Rest of World Based Manufacturers Vanadium Production Market Share (2021-2026)

Table 47. World Vanadium Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Vanadium Production by Type (2021-2026) & (Kilotons)

Table 49. World Vanadium Production by Type (2027-2032) & (Kilotons)

Table 50. World Vanadium Production Value by Type (2021-2026) & (USD Million)

Table 51. World Vanadium Production Value by Type (2027-2032) & (USD Million)

Table 52. World Vanadium Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Vanadium Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Vanadium Production Value by Production Route, (USD Million), 2021 & 2025 & 2032

Table 55. World Vanadium Production by Production Route (2021-2026) & (Kilotons)

Table 56. World Vanadium Production by Production Route (2027-2032) & (Kilotons)

Table 57. World Vanadium Production Value by Production Route (2021-2026) & (USD Million)

Table 58. World Vanadium Production Value by Production Route (2027-2032) & (USD Million)

Table 59. World Vanadium Average Price by Production Route (2021-2026) & (US\$/Ton)

Table 60. World Vanadium Average Price by Production Route (2027-2032) & (US\$/Ton)

Table 61. World Vanadium Production Value by Purity Grade, (USD Million), 2021 & 2025 & 2032

Table 62. World Vanadium Production by Purity Grade (2021-2026) & (Kilotons)

Table 63. World Vanadium Production by Purity Grade (2027-2032) & (Kilotons)

Table 64. World Vanadium Production Value by Purity Grade (2021-2026) & (USD Million)

Table 65. World Vanadium Production Value by Purity Grade (2027-2032) & (USD Million)

Table 66. World Vanadium Average Price by Purity Grade (2021-2026) & (US\$/Ton)

Table 67. World Vanadium Average Price by Purity Grade (2027-2032) & (US\$/Ton)

Table 68. World Vanadium Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Vanadium Production by Application (2021-2026) & (Kilotons)

Table 70. World Vanadium Production by Application (2027-2032) & (Kilotons)

Table 71. World Vanadium Production Value by Application (2021-2026) & (USD Million)

Table 72. World Vanadium Production Value by Application (2027-2032) & (USD Million)

Table 73. World Vanadium Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Vanadium Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. Pangang Group Vanadium and Titanium Resources Co.,Ltd. Basic Information, Manufacturing Base and Competitors

Table 76. Pangang Group Vanadium and Titanium Resources Co.,Ltd. Major Business

Table 77. Pangang Group Vanadium and Titanium Resources Co.,Ltd. Vanadium Product and Services

Table 78. Pangang Group Vanadium and Titanium Resources Co.,Ltd. Vanadium Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin

and Market Share (2021-2026)

Table 79. Pangang Group Vanadium and Titanium Resources Co.,Ltd. Recent Developments/Updates

Table 80. Pangang Group Vanadium and Titanium Resources Co.,Ltd. Competitive Strengths & Weaknesses

Table 81. Evraz Basic Information, Manufacturing Base and Competitors

Table 82. Evraz Major Business

Table 83. Evraz Vanadium Product and Services

Table 84. Evraz Vanadium Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Evraz Recent Developments/Updates

Table 86. Evraz Competitive Strengths & Weaknesses

Table 87. Hesteel Group Basic Information, Manufacturing Base and Competitors

Table 88. Hesteel Group Major Business

Table 89. Hesteel Group Vanadium Product and Services

Table 90. Hesteel Group Vanadium Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Hesteel Group Recent Developments/Updates

Table 92. Hesteel Group Competitive Strengths & Weaknesses

Table 93. Beijing Jianlong Heavy Industry Group Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 94. Beijing Jianlong Heavy Industry Group Co., Ltd. Major Business

Table 95. Beijing Jianlong Heavy Industry Group Co., Ltd. Vanadium Product and Services

Table 96. Beijing Jianlong Heavy Industry Group Co., Ltd. Vanadium Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Beijing Jianlong Heavy Industry Group Co., Ltd. Recent Developments/Updates

Table 98. Beijing Jianlong Heavy Industry Group Co., Ltd. Competitive Strengths & Weaknesses

Table 99. Treibacher Industrie Basic Information, Manufacturing Base and Competitors

Table 100. Treibacher Industrie Major Business

Table 101. Treibacher Industrie Vanadium Product and Services

Table 102. Treibacher Industrie Vanadium Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Treibacher Industrie Recent Developments/Updates

Table 104. Treibacher Industrie Competitive Strengths & Weaknesses

Table 105. Glencore Basic Information, Manufacturing Base and Competitors

- Table 106. Glencore Major Business
- Table 107. Glencore Vanadium Product and Services
- Table 108. Glencore Vanadium Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Glencore Recent Developments/Updates
- Table 110. Glencore Competitive Strengths & Weaknesses
- Table 111. Desheng Group Basic Information, Manufacturing Base and Competitors
- Table 112. Desheng Group Major Business
- Table 113. Desheng Group Vanadium Product and Services
- Table 114. Desheng Group Vanadium Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Desheng Group Recent Developments/Updates
- Table 116. Desheng Group Competitive Strengths & Weaknesses
- Table 117. Largo Inc. Basic Information, Manufacturing Base and Competitors
- Table 118. Largo Inc. Major Business
- Table 119. Largo Inc. Vanadium Product and Services
- Table 120. Largo Inc. Vanadium Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Largo Inc. Recent Developments/Updates
- Table 122. Largo Inc. Competitive Strengths & Weaknesses
- Table 123. Bushveld Minerals Basic Information, Manufacturing Base and Competitors
- Table 124. Bushveld Minerals Major Business
- Table 125. Bushveld Minerals Vanadium Product and Services
- Table 126. Bushveld Minerals Vanadium Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Bushveld Minerals Recent Developments/Updates
- Table 128. Bushveld Minerals Competitive Strengths & Weaknesses
- Table 129. U.S. Vanadium Basic Information, Manufacturing Base and Competitors
- Table 130. U.S. Vanadium Major Business
- Table 131. U.S. Vanadium Vanadium Product and Services
- Table 132. U.S. Vanadium Vanadium Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. U.S. Vanadium Recent Developments/Updates
- Table 134. U.S. Vanadium Competitive Strengths & Weaknesses
- Table 135. Shaanxi Youser Basic Information, Manufacturing Base and Competitors
- Table 136. Shaanxi Youser Major Business
- Table 137. Shaanxi Youser Vanadium Product and Services
- Table 138. Shaanxi Youser Vanadium Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Shaanxi Youser Recent Developments/Updates

Table 140. Shaanxi Youser Competitive Strengths & Weaknesses

Table 141. Global Key Players of Vanadium Upstream (Raw Materials)

Table 142. Global Vanadium Typical Customers

Table 143. Vanadium Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Vanadium Picture

Figure 2. World Vanadium Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Vanadium Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Vanadium Production (2021-2032) & (Kilotons)

Figure 5. World Vanadium Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Vanadium Production Value Market Share by Region (2021-2032)

Figure 7. World Vanadium Production Market Share by Region (2021-2032)

Figure 8. China Vanadium Production (2021-2032) & (Kilotons)

Figure 9. Europe Vanadium Production (2021-2032) & (Kilotons)

Figure 10. Vanadium Market Drivers

Figure 11. Factors Affecting Demand

Figure 12. World Vanadium Consumption (2021-2032) & (Kilotons)

Figure 13. World Vanadium Consumption Market Share by Region (2021-2032)

Figure 14. United States Vanadium Consumption (2021-2032) & (Kilotons)

Figure 15. China Vanadium Consumption (2021-2032) & (Kilotons)

Figure 16. Europe Vanadium Consumption (2021-2032) & (Kilotons)

Figure 17. Japan Vanadium Consumption (2021-2032) & (Kilotons)

Figure 18. South Korea Vanadium Consumption (2021-2032) & (Kilotons)

Figure 19. ASEAN Vanadium Consumption (2021-2032) & (Kilotons)

Figure 20. India Vanadium Consumption (2021-2032) & (Kilotons)

Figure 21. Producer Shipments of Vanadium by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 22. Global Four-firm Concentration Ratios (CR4) for Vanadium Markets in 2025

Figure 23. Global Four-firm Concentration Ratios (CR8) for Vanadium Markets in 2025

Figure 24. United States VS China: Vanadium Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 25. United States VS China: Vanadium Production Market Share Comparison (2021 & 2025 & 2032)

Figure 26. United States VS China: Vanadium Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States Based Manufacturers Vanadium Production Market Share 2025

Figure 28. China Based Manufacturers Vanadium Production Market Share 2025

Figure 29. Rest of World Based Manufacturers Vanadium Production Market Share 2025

Figure 30. World Vanadium Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 31. World Vanadium Production Value Market Share by Type in 2025

Figure 32. Vanadium Titanium Magnetite

Figure 33. Vanadium-containing Secondary Resource

Figure 34. Vanadium Slag

Figure 35. World Vanadium Production Market Share by Type (2021-2032)

Figure 36. World Vanadium Production Value Market Share by Type (2021-2032)

Figure 37. World Vanadium Average Price by Type (2021-2032) & (US\$/Ton)

Figure 38. World Vanadium Production Value by Production Route, (USD Million), 2021 & 2025 & 2032

Figure 39. World Vanadium Production Value Market Share by Production Route in 2025

Figure 40. Primary Mining Extraction

Figure 41. Secondary Source Recovery

Figure 42. Others

Figure 43. World Vanadium Production Market Share by Production Route (2021-2032)

Figure 44. World Vanadium Production Value Market Share by Production Route (2021-2032)

Figure 45. World Vanadium Average Price by Production Route (2021-2032) & (US\$/Ton)

Figure 46. World Vanadium Production Value by Purity Grade, (USD Million), 2021 & 2025 & 2032

Figure 47. World Vanadium Production Value Market Share by Purity Grade in 2025

Figure 48. Industrial-grade (95%-99%)

Figure 49. High-purity (99.5%-99.9%)

Figure 50. Ultra-high-purity (4N-5N)

Figure 51. World Vanadium Production Market Share by Purity Grade (2021-2032)

Figure 52. World Vanadium Production Value Market Share by Purity Grade (2021-2032)

Figure 53. World Vanadium Average Price by Purity Grade (2021-2032) & (US\$/Ton)

Figure 54. World Vanadium Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World Vanadium Production Value Market Share by Application in 2025

Figure 56. Steel Industry

Figure 57. Chemical Industry

Figure 58. Vanadium Alloys

Figure 59. Energy Storage

Figure 60. World Vanadium Production Market Share by Application (2021-2032)

Figure 61. World Vanadium Production Value Market Share by Application (2021-2032)

Figure 62. World Vanadium Average Price by Application (2021-2032) & (US\$/Ton)

Figure 63. Vanadium Industry Chain

Figure 64. Vanadium Procurement Model

Figure 65. Vanadium Sales Model

Figure 66. Vanadium Sales Channels, Direct Sales, and Distribution

Figure 67. Methodology

Figure 68. Research Process and Data Source

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