

Global Vanadium Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Vanadium market size was valued at USD 4497.2 million in 2023 and is forecast to a readjusted size of USD 7076.1 million by 2030 with a CAGR of 6.7% during review period.

Vanadium (CAS 7440-62-2) is a silver-gray metal, hard, non-magnetic, and ductile, but if it contains a small amount of impurities, especially nitrogen, oxygen, hydrogen, etc., its plasticity can be significantly reduced.

Most vanadium processors initially produce technical grade vanadium oxide, which is a major intermediate product. Vanadium oxide refers to the oxide and mixed phase formed by the combination of vanadium and oxygen. Vanadium oxide products mainly include vanadium trioxide and vanadium pentoxide, of which vanadium trioxide is mainly used to prepare vanadium alloys, and vanadium pentoxide can be used to prepare vanadium alloys and vanadium batteries according to its preparation method, purity and physical properties Electrolyte, catalyst and chemical raw materials, etc. Vanadium pentoxide accounts for the largest proportion.

It is then made into ferro-vanadium, vanadium alloys and vanadium chemicals. Among them, ferrovanadium 80 is the final product with the largest proportion.

To sum up, vanadium products are divided into primary products, secondary products and tertiary products.

Primary products include vanadium-bearing minerals, ore concentrates, vanadium slag, spent petroleum refining spent catalysts, spent catalysts and other residues.

Secondary products include vanadium pentoxide, which can also be a useful industrial product, namely catalysts for the production of sulfuric acid and catalysts for petroleum refining.

The tertiary products include ferro-vanadium, vanadium-aluminum alloy, molybdenum-vanadium-aluminum alloy, silicon-manganese-vanadium-ferroalloy and vanadium compounds, among which ferro-vanadium is the most important vanadium material.

The data in this report have been converted into V₂O₅ as the statistical standard.

Global 5 largest manufacturers of Vanadium (CAS 7440-62-2) are Pangang Group Vanadium and Titanium Resources Co.,Ltd., Evraz, Hesteel Group, Beijing Jianlong Heavy Industry Group Co., Ltd. And Treibacher Industrie, which make up nearly 50%. Most of the top manufacturers headquarter in China and Europe.

Asia is the largest market, holding a share over 70%, followed by North America and Europe, with share 10% and 15% separately.

Vanadium products are divided into primary products, secondary products and tertiary products. The products are mainly used in steel industry, with a market share over 85%.

The Global Info Research report includes an overview of the development of the Vanadium industry chain, the market status of Steel Industry (Vanadium Titanium Magnetite, Vanadium-containing Secondary Resource), Chemical Industry (Vanadium Titanium Magnetite, Vanadium-containing Secondary Resource), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Vanadium.

Regionally, the report analyzes the Vanadium markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Vanadium market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Vanadium market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and

opportunities within the Vanadium industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Tons), revenue generated, and market share of different by Type (e.g., Vanadium Titanium Magnetite, Vanadium-containing Secondary Resource).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Vanadium market.

Regional Analysis: The report involves examining the Vanadium market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Vanadium market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Vanadium:

Company Analysis: Report covers individual Vanadium manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Vanadium This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Steel Industry, Chemical Industry).

Technology Analysis: Report covers specific technologies relevant to Vanadium. It assesses the current state, advancements, and potential future developments in Vanadium areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Vanadium market. This

analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Vanadium market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

- Vanadium Titanium Magnetite

- Vanadium-containing Secondary Resource

- Vanadium Slag

Market segment by Application

- Steel Industry

- Chemical Industry

- Vanadium Alloys

- Energy Storage

Major players covered

- Pangang Group Vanadium and Titanium Resources Co.,Ltd.

- Evraz

- Hesteel Group

Beijing Jianlong Heavy Industry Group Co., Ltd.

Treibacher Industrie

Glencore

Chengyu Vanadium & Titanium Technology Co., Ltd.

Desheng Group

Largo Inc.

Bushveld Minerals

Da Steel

U.S. Vanadium

Shaanxi Youser

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Vanadium product scope, market overview, market estimation

caveats and base year.

Chapter 2, to profile the top manufacturers of Vanadium, with price, sales, revenue and global market share of Vanadium from 2019 to 2024.

Chapter 3, the Vanadium competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Vanadium breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Vanadium market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Vanadium.

Chapter 14 and 15, to describe Vanadium sales channel, distributors, customers, research findings and conclusion.

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