

Global Vanadium Catalysts Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Vanadium Catalysts market size was valued at US\$ 1235 million in 2025 and is forecast to a readjusted size of US\$ 1810 million by 2032 with a CAGR of 5.9% during review period.

Vanadium Catalysts are finished industrial catalyst products that use vanadium oxides, especially vanadium pentoxide, as the main active component. They are typically produced through loading, extrusion, shaping, calcination, and activation processes, and are supplied as honeycomb, plate, ring, pellet, or modular catalyst products. Core product categories include vanadium catalysts for sulfuric acid production, vanadium-titanium selective catalytic reduction catalysts for stationary NO_x control, and vanadium-containing catalysts for maleic anhydride, phthalic anhydride, dehydrogenation, and selective oxidation processes. Main industrial systems include vanadium-potassium-silica, vanadium-tungsten-titanium, and vanadium-molybdenum-titanium formulations. Key performance indicators include operating temperature window, conversion efficiency, sulfur and water resistance, mechanical strength, pressure drop, service life, and regeneration performance. Major producing countries include China, the United States, Germany, Denmark, Japan, South Korea, India, Belgium, and Austria.

In 2025, global Vanadium Catalysts production reached approximately 70,000 to 85,000 metric tons. Under the finished-product scope covering sulfuric acid catalysts, SCR denitration catalysts, and selective oxidation catalysts, ex-works and FOB prices were mainly concentrated at USD 13 to USD 17 per kg; ring and pellet sulfuric acid catalysts generally traded below high-performance honeycomb and plate SCR catalysts, while low-temperature, high-activity, sulfur-resistant, water-resistant, and customized modular products achieved higher selling prices.

The global Vanadium Catalysts market is moving from a traditional process-catalyst market toward a broader growth cycle driven by environmental control, low-carbon industrial upgrading, and process-efficiency improvement. Sulfuric acid remains a core feedstock for basic chemicals and fertilizers, and smelter acid plants, sulfur-burning acid units, and wet gas sulfuric acid systems continue to require high-activity, low-emission, and long-life vanadium catalysts. At the same time, NOx control demand from power generation, cement, glass, waste incineration, marine engines, and industrial boilers continues to support vanadium-titanium SCR catalysts through replacement demand, ultra-low-emission retrofits, and expansion into non-power industries. For downstream users, catalysts are not only consumables but also critical process materials that affect conversion rate, energy consumption, emission stability, and operating cycle length.

Key market challenges include feedstock price volatility, policy execution cycles, customer capital expenditure timing, and technology substitution. Upstream costs are affected by vanadium pentoxide, titanium dioxide, tungsten, molybdenum, diatomite, ceramic supports, and structural materials, making profitability sensitive to metal and energy price movements. New demand for SCR catalysts in the power sector is becoming more mature, while growth is shifting toward non-power industries, marine emission control, and replacement cycles. Sulfuric acid catalyst demand remains closely linked to fertilizer, metal smelting, petrochemical, and basic chemical investment. Over the next several years, suppliers with formulation development, engineering adaptation, lifecycle services, catalyst regeneration, and spent catalyst recycling capabilities will be better positioned to move from product sales toward service-based revenue and maintain stronger competitiveness as environmental standards tighten and industrial plants pursue efficiency upgrades.

This report is a detailed and comprehensive analysis for global Vanadium Catalysts market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Vanadium Catalysts market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Vanadium Catalysts market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Vanadium Catalysts market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Vanadium Catalysts market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Vanadium Catalysts

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Vanadium Catalysts market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Topsoe A/S, Elestent Clean Technologies Inc., BASF SE, Johnson Matthey plc, CORMETECH Inc., Mitsubishi Power Ltd., Kanadevia Corporation, Umicore SA, Clariant AG, Shell plc, etc.

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

Market Segmentation

Vanadium Catalysts market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

SCR Denitration Catalyst

Sulfuric Acid Catalyst

Selective Oxidation Catalyst

Market segment by Product Form

Honeycomb Catalyst

Ring and Pellet Catalyst

Plate Catalyst

Others

Market segment by Active Component System

Vanadium Tungsten Titanium System

Vanadium Alkali Silica System

Vanadium Molybdenum Titanium System

Others

Market segment by Operating Temperature Range

Medium Temperature Catalyst

High Temperature Catalyst

Low Temperature Catalyst

Market segment by Application

Power Generation and Utilities

Chemical and Fertilizer Production

Cement Glass and Industrial Furnaces

Others

Major players covered

Topsoe A/S

Ellessent Clean Technologies Inc.

BASF SE

Johnson Matthey plc

CORMETECH Inc.

Mitsubishi Power Ltd.

Kanadevia Corporation

Umicore SA

Clariant AG

Shell plc

NANO Co., Ltd.

DaeYoung C&E Co., Ltd.

KIYEON E&C Co., Ltd.

Bharat Heavy Electricals Limited

BST System Technology Co., Ltd.

Guizhou Wylton Catalytic Technology Co., Ltd.

Sinopec Nanjing Chemical Industrial Co., Ltd.

Datang Nanjing Environmental Protection Technology Co., Ltd.

Guoneng Longyuan Catalyst Jiangsu Co., Ltd.

SPIC Yuanda Environmental Protection Catalyst Co., Ltd.

Dongfang KWH Chengdu Environmental Protection Catalyst Co., Ltd.

Zhejiang Tuna Environmental Science and Technology Co., Ltd.

Anhui Yuanchen Environmental Protection Science and Technology Co., Ltd.

Tongxing Environmental Protection Technology Co., Ltd.

Beijing Denox Environment and Technology Co., Ltd.

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 Catalysts product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Vanadium Catalysts, with price, sales quantity, revenue, and global market share of Vanadium Catalysts from 2021 to 2026.

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

Chapter 4, the Vanadium Catalysts breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and Vanadium Catalysts market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Catalysts.

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

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