

Global Vanadium Catalysts Market Growth 2026-2032

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Abstracts

The global Vanadium Catalysts market size is predicted to grow from US\$ 1174 million in 2025 to US\$ 1757 million in 2032; it is expected to grow at a CAGR of 6.2% from 2026 to 2032.

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, NO_x 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.

LP Information, Inc. (LPI) ' newest research report, the "Vanadium Catalysts Industry Forecast" looks at past sales and reviews total world Vanadium Catalysts sales in 2025, providing a comprehensive analysis by region and market sector of projected Vanadium Catalysts sales for 2026 through 2032. With Vanadium Catalysts sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Vanadium Catalysts industry.

This Insight Report provides a comprehensive analysis of the global Vanadium Catalysts landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Vanadium Catalysts portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Vanadium Catalysts market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Vanadium Catalysts and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Vanadium Catalysts.

This report presents a comprehensive overview, market shares, and growth opportunities of Vanadium Catalysts market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

SCR Denitration Catalyst

Sulfuric Acid Catalyst

Selective Oxidation Catalyst

Segmentation by Product Form:

Honeycomb Catalyst

Ring and Pellet Catalyst

Plate Catalyst

Others

Segmentation by Active Component System:

Vanadium Tungsten Titanium System

Vanadium Alkali Silica System

Vanadium Molybdenum Titanium System

Others

Segmentation by Operating Temperature Range:

Medium Temperature Catalyst

High Temperature Catalyst

Low Temperature Catalyst

Segmentation by Application:

Power Generation and Utilities

Chemical and Fertilizer Production

Cement Glass and Industrial Furnaces

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Vanadium Catalysts market?

What factors are driving Vanadium Catalysts market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Vanadium Catalysts market opportunities vary by end market size?

How does Vanadium Catalysts break out by Type, by Application?

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