

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

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Abstracts

The global Vanadium Catalysts market size is expected to reach \$ 1810 million by 2032, rising at a market growth of 5.9% CAGR during the forecast period (2026-2032).

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.

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

This report is a detailed and comprehensive analysis of the world market for Vanadium Catalysts 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 Catalysts that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

Global Vanadium Catalysts production by region & country, production, value, CAGR,

2021-2032, (USD Million) & (Tons), (based on production site)

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

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

Global Vanadium Catalysts production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

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

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

This report profiles key players in the global Vanadium Catalysts 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 Topsoe A/S, Elesent 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.

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

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) 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 Catalysts Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Vanadium Catalysts Market, Segmentation by Type:

SCR Denitration Catalyst

Sulfuric Acid Catalyst

Selective Oxidation Catalyst

Global Vanadium Catalysts Market, Segmentation by Product Form:

Honeycomb Catalyst

Ring and Pellet Catalyst

Plate Catalyst

Others

Global Vanadium Catalysts Market, Segmentation by Active Component System:

Vanadium Tungsten Titanium System

Vanadium Alkali Silica System

Vanadium Molybdenum Titanium System

Others

Global Vanadium Catalysts Market, Segmentation by Operating Temperature Range:

Medium Temperature Catalyst

High Temperature Catalyst

Low Temperature Catalyst

Global Vanadium Catalysts Market, Segmentation by Application:

Power Generation and Utilities

Chemical and Fertilizer Production

Cement Glass and Industrial Furnaces

Others

Companies Profiled:

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 Answered:

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

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