

Global Vanadium Pentoxide Catalyst Market Growth 2026-2032

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Abstracts

The global Vanadium Pentoxide Catalyst market size is predicted to grow from US\$ 303 million in 2025 to US\$ 442 million in 2032; it is expected to grow at a CAGR of 5.6% from 2026 to 2032.

Vanadium pentoxide catalyst is a critically important industrial solid catalyst. It primarily utilizes highly active, orange-yellow, powdered vanadium pentoxide as its active component; typically supported on carriers such as silica, it is manufactured through processes involving mixing, molding, and calcination. This class of catalysts is primarily employed in fixed-bed oxidation reactions, with its most quintessential application being the catalytic oxidation of sulfur dioxide to sulfur trioxide during the production of sulfuric acid. Industrial products typically take the form of granules, rings, or porous molded bodies.

The core upstream raw material is vanadium pentoxide, which is primarily extracted from vanadium-titanium magnetite, carbonaceous shale, or industrial waste residues (such as spent catalysts and petroleum coke). Auxiliary raw materials include diatomaceous earth, which serves as a carrier, and alkali metal salts, which function as co-catalysts. The core midstream stage encompasses catalyst formulation R&D, as well as molding and calcination processes. The manufacturing workflow involves mixing, extrusion molding, impregnation, drying, and activation calcination.

In 2025, global sales volume is projected to reach approximately 44,900 tons, with an average selling price of \$6,900 per ton. The industry's gross profit margin typically ranges between 20% and 35%.

This product is a solid, shaped catalyst comprising a vanadium oxide-based active

system, a siliceous support, and promoters such as potassium and cesium. Its value proposition is primarily reflected in its SO₂ conversion rate, low-temperature activity, bed pressure drop, mechanical strength, service life, and compliance with environmental standards. The long-term operation of downstream sulfuric acid plants coupled with increasingly stringent environmental regulations constitutes the core driver for the demand for vanadium pentoxide catalysts. Sulfuric acid is widely utilized in industries such as phosphate fertilizers, non-ferrous metallurgy, general chemicals, refining and petrochemicals, and waste acid regeneration; consequently, production facilities require periodic screening, replenishment, and replacement of catalysts. Concurrently, tightening emission standards for tail gas SO₂ are compelling enterprises to adopt catalysts featuring higher activity—specifically low-temperature, cesium-promoted, or geometrically optimized variants. Companies such as Topsoe, BASF, and Elessent Clean Technologies demonstrate distinct advantages in the realms of high-end sulfuric acid catalysts, cesium-promoted catalysts, low-emission retrofits, and engineering services; conversely, Chinese enterprises primarily serve domestic markets along with select overseas sulfuric acid, metallurgy, and fertilizer facilities and derive their competitive edge predominantly from cost-effectiveness, delivery efficiency, and localized service capabilities. The focal point of industry competition is currently shifting away from low-price supply toward conversion efficiency, emission control, bed pressure drop, service life, and comprehensive technical service capabilities across the entire process chain.

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

This Insight Report provides a comprehensive analysis of the global Vanadium Pentoxide Catalyst 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 Pentoxide Catalyst portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Vanadium Pentoxide Catalyst market.

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for Vanadium Pentoxide Catalyst 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 Pentoxide Catalyst.

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

Segmentation by Type:

Medium-Temperature Type

Low-Temperature Type

High-Temperature Type

Segmentation by Additive System:

Potassium-Promoted

Cesium-Promoted

Others

Segmentation by Product Form:

Star-Shaped

Ring-shaped

Other

Segmentation by Application:

Sulfuric Acid Industry

Non-ferrous Metal Smelting

Phosphorus and Chemical Fertilizers

Oil and Gas

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

BASF

Ellesent Clean Technologies

S?d-Chemie India

Nanjing Yungao New Materials

Guizhou Weidun Catalytic Technology

Xiangyang Jingxin Catalyst

Kaifeng Sanfeng Catalyst

Key Questions Addressed in this Report

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

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

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

How do Vanadium Pentoxide Catalyst market opportunities vary by end market size?

How does Vanadium Pentoxide Catalyst break out by Type, by Application?

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