

Global Vanadium Pentoxide Catalyst Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Vanadium Pentoxide Catalyst market size is expected to reach \$ 457 million by 2032, rising at a market growth of 5.3% CAGR during the forecast period (2026-2032).

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.

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

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

Highlights and key features of the study

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

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

Global Vanadium Pentoxide Catalyst production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

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

U.S. VS China: Vanadium Pentoxide Catalyst domestic production, consumption, key

domestic manufacturers and share

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

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

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

This report profiles key players in the global Vanadium Pentoxide Catalyst 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, BASF, Elesent Clean Technologies, S?d-Chemie India, Nanjing Yungao New Materials, Guizhou Weidun Catalytic Technology, Xiangyang Jingxin Catalyst, Kaifeng Sanfeng Catalyst, 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 Pentoxide Catalyst 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 Pentoxide Catalyst Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Vanadium Pentoxide Catalyst Market, Segmentation by Type:

Medium-Temperature Type

Low-Temperature Type

High-Temperature Type

Global Vanadium Pentoxide Catalyst Market, Segmentation by Additive System:

Potassium-Promoted

Cesium-Promoted

Others

Global Vanadium Pentoxide Catalyst Market, Segmentation by Product Form:

Star-Shaped

Ring-shaped

Other

Global Vanadium Pentoxide Catalyst Market, Segmentation by Application:

Sulfuric Acid Industry

Non-ferrous Metal Smelting

Phosphorus and Chemical Fertilizers

Oil and Gas

Others

Companies Profiled:

Topsoe

BASF

Elessent Clean Technologies

S?d-Chemie India

Nanjing Yungao New Materials

Guizhou Weidun Catalytic Technology

Xiangyang Jingxin Catalyst

Kaifeng Sanfeng Catalyst

Key Questions Answered:

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

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