

Global High-Purity Vanadium Pentoxide Market Growth 2026-2032

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Abstracts

The global High-Purity Vanadium Pentoxide market size is predicted to grow from US\$ 303 million in 2025 to US\$ 492 million in 2032; it is expected to grow at a CAGR of 7.3% from 2026 to 2032.

High-Purity Vanadium Pentoxide refers to vanadium oxide material with V_2O_5 as the main component and a typical purity of 99.5% or above, while premium grades often reach 99.8% to 99.9% or higher. It is mainly supplied as powder, flake, granule, or fused flake, with key specifications covering V_2O_5 assay, trace impurities such as iron, chromium, silicon, sodium, and potassium, particle size distribution, solubility, and batch-to-batch consistency. Compared with standard 98% industrial-grade vanadium pentoxide, high-purity V_2O_5 is positioned as a specialty vanadium chemical used in vanadium redox flow battery electrolyte precursors, catalysts, aerospace alloys, glass, pigments, and other high-value material applications.

In 2025, global High-Purity Vanadium Pentoxide production reached approximately 16,000 to 19,000 metric tons. Under bulk chemical and battery-material procurement conditions, FOB and ex-works prices for 99.5% to 99.9% V_2O_5 were generally concentrated at USD 16 to USD 20 per kg; standard 98% V_2O_5 traded below high-purity material, while small-package reagent grades and ultra-high-purity products commanded much higher unit prices than bulk industrial transactions.

The global High-Purity Vanadium Pentoxide market is shifting from a traditional chemical and metallurgical material framework toward a growth model jointly driven by energy storage materials, aerospace alloys, and specialty catalysts. Vanadium redox flow batteries are gaining relevance in long-duration energy storage, renewable power integration, and large stationary storage projects because of their operational safety,

long cycle life, and scalable capacity design. At the same time, aerospace titanium alloys, aluminum-vanadium master alloys, gas treatment systems, sulfuric acid catalysts, and maleic anhydride catalysts require stable impurity control and consistent batch quality, turning high-purity V_2O_5 into a distinct high-value specialty material rather than merely an upgraded grade of standard vanadium pentoxide.

The main risks are concentrated in supply stability, cost volatility, and downstream adoption speed. Vanadium supply is closely linked to vanadiferous titanomagnetite, vanadium slag, petroleum residues, and spent catalysts, so feedstock availability and pricing are exposed to steel cycles, environmental controls, and mining and metallurgical operating rates. High-purity production also requires tighter control of impurities such as iron, chromium, sodium, and potassium, making qualified capacity expansion slower than standard-grade V_2O_5 . Although stationary energy storage demand is expanding, VRFB projects still face higher upfront costs and competition from lithium, sodium, and other battery chemistries. Companies with secured feedstock, purification technology, scalable production, and certified battery-material customers are likely to capture stronger pricing power over the forecast period.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High-Purity Vanadium Pentoxide and breaks down the forecast by Purity, 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 High-Purity Vanadium Pentoxide.

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

Segmentation by Purity:

99.5% to 99.8% Grade

99.8% to 99.9% Grade

Greater Than 99.9% Grade

Segmentation by Product Form:

Powder

Flake

Granule and Pellet

Others

Segmentation by Production Route:

Precipitation and Calcination Route

Solvent Extraction Based Route

Chlorination and Oxidation Route

Others

Segmentation by Feedstock Source:

Vanadium Slag and Titanomagnetite

Stone Coal and Vanadium Shale

Spent Catalysts and Petroleum Residues

Others

Segmentation by Application:

Energy Storage

Chemical Processing

Metallurgy and Aerospace Materials

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.

U.S. Vanadium LLC

GfE Gesellschaft F?r Elektrometallurgie mbH

HBIS Group Co., Ltd.

Pangang Group Vanadium Titanium & Resources Co., Ltd.

Lomon Billions Group Co., Ltd.

Suzhou Donghua Fangui Co., Ltd.

Liaoyang Hengye Chemical Co., Ltd.

Hunan Huifeng High Energy Co., Ltd.

Hunan Sanfeng Vanadium Industry Co., Ltd.

Jiangxi Baichuan Vanadium Industry Co., Ltd.

Largo Inc.

Bushveld Minerals Limited

TAE WHA Inc.

Plum-Monix Industry Co., Ltd.

Moly Metal LLP

Key Questions Addressed in this Report

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

What factors are driving High-Purity Vanadium Pentoxide market growth, globally and by region?

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

How do High-Purity Vanadium Pentoxide market opportunities vary by end market size?

How does High-Purity Vanadium Pentoxide break out by Purity, by Application?

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