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Global Vanadyl Sulfate Supply, Demand and Key Producers, 2026-2032

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Abstracts

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

Vanadyl Sulfate is an inorganic vanadium salt based on the tetravalent vanadyl ion, commonly expressed as VOSO? or VOSO??xH?O. Commercial products are typically supplied as blue crystalline powder, hydrated solid, or aqueous solution at specified concentration. With good water solubility and high chemical stability, it serves as an important intermediate linking vanadium oxides, vanadium salts, battery electrolytes, and vanadium-based functional materials. Major supply regions include China, the United States, Japan, Germany, and India, with grades ranging from industrial, reagent, high-purity, to battery-grade products.

Vanadyl Sulfate is mainly used as a precursor for vanadium redox flow battery electrolyte, vanadium-based catalysts, desulfurization catalyst systems in oil refining, electroplating and surface treatment, ceramic and glass coloration, pharmaceutical and nutritional research reagents, and downstream processing of vanadium compounds. Battery-grade and high-purity Vanadyl Sulfate are gaining stronger market attention, while current commercial revenue is still supported by a mix of industrial chemicals, catalysts, reagents, and small-volume high-purity material demand.

In 2025, global Vanadyl Sulfate production reached approximately 1,900?2,300 metric tons, while mainstream industrial-grade and battery-grade products were priced at around USD 17,500?21,500 per metric ton on an FOB basis. As a small-volume specialty vanadium compound, Vanadyl Sulfate is priced well above standard vanadium oxide feedstocks, with pricing affected by purity, hydration level, solution concentration, impurity control, and order size. Future demand growth is expected to be driven mainly

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by vanadium redox flow battery electrolyte precursors, catalyst materials, and high-purity vanadium chemicals.

The global Vanadyl Sulfate market is moving from a traditional specialty vanadium chemical toward a more strategic precursor for energy storage materials. Historically, the product has served small-volume applications such as catalysts, reagents, electroplating, ceramics, and pharmaceutical research, resulting in a relatively limited market scale. With the expansion of long-duration energy storage, renewable power integration, and vanadium redox flow battery projects, Vanadyl Sulfate is gaining renewed importance as a tetravalent vanadium source and electrolyte preparation intermediate. For suppliers, future opportunities will come not only from capacity expansion, but also from stronger purity control, impurity management, solution stability, batch consistency, and battery-grade qualification. China has clear advantages in vanadium resources, vanadium salt processing, and battery material supply chains, while the United States, Japan, Germany, and India remain competitive in high-purity reagents, specialty chemicals, and customized applications.

At the same time, the market faces the typical risks of a niche specialty chemical. Upstream vanadium pentoxide price volatility directly affects production costs, while the commercialization pace of vanadium flow batteries still depends on project economics, electrolyte leasing models, energy storage policy, and customer validation cycles. In addition, the price gap between industrial-grade, high-purity, and battery-grade products is significant, and market statistics can be overstated if Vanadyl Sulfate is mixed with vanadium electrolyte. Over the next few years, demand is expected to grow along two tracks: stable procurement from established applications such as catalysts, surface treatment, and laboratory reagents, and incremental growth from battery-grade Vanadyl Sulfate, aqueous Vanadyl Sulfate solutions, and high-purity vanadium chemicals as the energy storage supply chain matures.

This report studies the global Vanadyl Sulfate production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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Global Vanadyl Sulfate total production and demand, 2021-2032, (kg)
Global Vanadyl Sulfate total production value, 2021-2032, (USD Million)
Global Vanadyl Sulfate production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)
Global Vanadyl Sulfate consumption by region & country, CAGR, 2021-2032 & (kg)
U.S. VS China: Vanadyl Sulfate domestic production, consumption, key domestic manufacturers and share
Global Vanadyl Sulfate production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)
Global Vanadyl Sulfate production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)
Global Vanadyl Sulfate production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global Vanadyl Sulfate 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 US Vanadium LLC, American Elements, Thermo Fisher Scientific Inc., Merck KGaA (Sigma-Aldrich), Ascensus Specialties LLC (Strem Catalog), Noah Chemicals, Ereztech LLC, LTS Research Laboratories, Inc., ProChem, Inc., Tokyo Chemical Industry Co., Ltd., 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 Vanadyl Sulfate market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (kg) and average price (US$/kg) 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 Vanadyl Sulfate Market, By Region:

United States

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China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Vanadyl Sulfate Market, Segmentation by Type:

Vanadyl Sulfate Hydrate

Vanadyl Sulfate Solution

High Purity Vanadyl Sulfate

Others

Global Vanadyl Sulfate Market, Segmentation by Physical Form:

Hydrated Powder and Crystals

Aqueous Solution

Others

Global Vanadyl Sulfate Market, Segmentation by Purity Level:

97 Percent Grade

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98 Percent Grade

99 Percent Grade

Others

Global Vanadyl Sulfate Market, Segmentation by Production Route:

Vanadium Pentoxide Reduction Route

Vanadium Bearing Solution Conversion Route

Recycled Vanadium Route

Others

Global Vanadyl Sulfate Market, Segmentation by Application:

Chemicals and Catalysts

Energy Storage

Pharmaceuticals and Laboratories

Surface Treatment and Materials

Others

Companies Profiled:

US Vanadium LLC

American Elements

Thermo Fisher Scientific Inc.

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Merck KGaA (Sigma-Aldrich)

Ascensus Specialties LLC (Strem Catalog)

Noah Chemicals

Ereztech LLC

LTS Research Laboratories, Inc.

ProChem, Inc.

Tokyo Chemical Industry Co., Ltd.

FUJIFILM Wako Pure Chemical Corporation

Shinko Chemical Co., Ltd.

MaTecK GmbH

Muby Chemicals

Aadhunik Industries

ShanPar Industries Pvt. Ltd.

Hefei TNJ Chemical Industry Co., Ltd.

Shenyang Haizhongtian Fine Chemical Factory

Jiangxi Yuanfan New Materials Co., Ltd.

UBIQ Technology Co., Ltd.

Key Questions Answered:
1. How big is the global Vanadyl Sulfate market?
2. What is the demand of the global Vanadyl Sulfate market?

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3. What is the year over year growth of the global Vanadyl Sulfate market?
4. What is the production and production value of the global Vanadyl Sulfate market?
5. Who are the key producers in the global Vanadyl Sulfate market?
6. What are the growth factors driving the market demand?

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