

# Global Vanadium Sputtering Targets Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Vanadium Sputtering Targets market size is expected to reach \$ 30.81 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

Vanadium sputtering targets are thin film deposition targets made of high-purity vanadium metal or vanadium-based materials. They are primarily used to form vanadium or vanadium compound thin films on substrate surfaces via magnetron sputtering, and are widely used in functional thin films, microelectronics, energy storage devices, and optical and wear-resistant coatings. The upstream sector mainly includes vanadium ore resources, vanadium pentoxide, ferrovandium, and high-purity vanadium metal raw materials, and is significantly affected by resource endowment, steel by-product recycling, and fluctuations in new energy demand. Downstream applications are concentrated in high-tech fields such as semiconductor and microelectronic thin films, VO<sub>2</sub> phase change thin films for smart windows, thin-film batteries, electrode materials, and wear-resistant and functional coatings. The global unit price of vanadium sputtering targets is US\$81,500/ton, with annual sales of approximately 240 tons, a global annual production capacity of 280 tons, and an industry profit margin of 25%.

Global Future Development Trends:

With the development of smart buildings, energy-saving glass, and infrared control technologies, the application of vanadium-based phase change thin films such as VO<sub>2</sub> is accelerating. This places higher demands on the purity, compositional stability, and sputtering consistency of vanadium sputtering targets, driving the upgrade of targets from general-purpose to functionally customized.

In advanced processes, MEMS, and novel devices, vanadium thin films are used as electrodes, barrier layers, and functional layers. This necessitates stricter control over target impurities, grain structure, and particle shedding. The technological barriers and added value of high-purity, high-density vanadium targets are continuously increasing.

Compared to bulk targets such as aluminum and copper, the vanadium sputtering target market is limited in size but highly technology-intensive. Future growth will rely more on niche applications such as new energy and functional thin films. The industry will be characterized by concentrated production capacity, high customer certification barriers, and continuously rising value per ton.

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

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

### **Highlights and key features of the study**

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

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

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

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

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

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

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

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

This report profiles key players in the global Vanadium Sputtering Targets 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 FHR, The Kurt J. Lesker Company, American Elements, Nanografi Nano Technology, HIMET MATERIALS, AEM, Nanografi Nano Technology, ACI Alloys, Glentham Life Sciences, ALB Materials, 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 Sputtering Targets 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 Sputtering Targets Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Vanadium Sputtering Targets Market, Segmentation by Type:

Planar Target

Rotary Target

Global Vanadium Sputtering Targets Market, Segmentation by Sputtering Processes:

DC Magnetron Sputtering Vanadium Target

RF Magnetron Sputtering Vanadium Target

Others

## Global Vanadium Sputtering Targets Market, Segmentation by Purity Grade:

3N

4N

5N

## Global Vanadium Sputtering Targets Market, Segmentation by Application:

Online Sales

Offline Sales

## **Companies Profiled:**

FHR

The Kurt J. Lesker Company

American Elements

Nanografi Nano Technology

HIMET MATERIALS

AEM

Nanografi Nano Technology

ACI Alloys

Glentham Life Sciences

ALB Materials

Able Target

Sinomaterial Rising Technology

SCI Engineered Materials

NC Elements

**Key Questions Answered:**

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

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