

Global High Purity Gadolinium Oxide Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High Purity Gadolinium Oxide market size is expected to reach \$ 99 million by 2032, rising at a market growth of 4.5% CAGR during the forecast period (2026-2032).

High purity gadolinium oxide (Gd_2O_3) is a high-purity rare-earth oxide (typically exceeding 99.99% purity) that appears as a white powder. Due to its excellent neutron absorption cross-section, high refractive index, and superior magnetic and luminescent properties, it is widely used in the nuclear industry, optoelectronic materials, and high-end electronic devices.

Upstream raw materials primarily include mixed rare-earth ores, ion-adsorption rare-earth ores, rare-earth chloride solutions, rare-earth carbonates, gadolinium oxalate, gadolinium nitrate, hydrochloric acid, liquid alkali, oxalic acid, and extractants. The key to production lies in isolating and enriching gadolinium from medium-to-heavy rare-earth systems and controlling through processes such as solvent extraction, precipitation, washing, calcination, and screening rare-earth impurities, non-rare-earth impurities (such as iron, calcium, and silicon), particle size, and loss on ignition.

Global sales volume for high-purity gadolinium oxide in 2025 is in the range of one thousand tonnes. Prices depend on purity, impurity control, and application grade, generally ranging from \$30 to \$60 per kilogram, with a gross profit margin of approximately 18%-30%.

Demand in the high-purity gadolinium oxide industry is primarily driven by high-end applications in medical imaging, the nuclear industry, luminescent and scintillation materials, and optical materials. Medical-grade and nuclear-grade products, in particular, demand stringent standards regarding purity, impurity control, batch

consistency, and quality management systems, thereby increasing the market share of 4N, 5N, and higher-purity specifications. As a medium-to-heavy rare earth element, gadolinium involves a complex resource separation and purification process and is characterized by high supply concentration; consequently, fluctuations in raw material prices and export policies directly impact downstream sectors. Overall, the market is likely to evolve toward steady demand growth, a customer base increasingly concentrated in medical and nuclear applications, price trends driven by supply-demand cycles for medium-to-heavy rare earths, and a landscape where leading enterprises leverage their purification capabilities and certification credentials to secure greater bargaining power.

This report studies the global High Purity Gadolinium Oxide production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High Purity Gadolinium Oxide 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 High Purity Gadolinium Oxide that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High Purity Gadolinium Oxide total production and demand, 2021-2032, (Tons)

Global High Purity Gadolinium Oxide total production value, 2021-2032, (USD Million)

Global High Purity Gadolinium Oxide production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global High Purity Gadolinium Oxide consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: High Purity Gadolinium Oxide domestic production, consumption, key domestic manufacturers and share

Global High Purity Gadolinium Oxide production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global High Purity Gadolinium Oxide production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global High Purity Gadolinium Oxide production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global High Purity Gadolinium Oxide 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 Solvay, Treibacher Industrie, Shin-Etsu Chemical, Mitsui Kinzoku, Ganzhou Qiandong Rare Earth Group, Fujian Golden Dragon Rare-Earth, Dingnan Dahua Advanced Materials, Guangzhou Jianfeng Minmetals Rare Earth, GRIREM Advanced Materials, Yiyang Hongyuan Rare Earth, 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 High Purity Gadolinium Oxide market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) 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 High Purity Gadolinium Oxide Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Purity Gadolinium Oxide Market, Segmentation by Type:

4N

5N

6N

Other

Global High Purity Gadolinium Oxide Market, Segmentation by Grade:

Standard Grade

Medical Grade

Nuclear Grade

Other

Global High Purity Gadolinium Oxide Market, Segmentation by Particle Size:

Nanoscale

Microscale

Other

Global High Purity Gadolinium Oxide Market, Segmentation by Application:

Medical

Nuclear Industry

Luminescent and Scintillation Materials

Optical Materials

Electronic Materials

Other

Companies Profiled:

Solvay

Treibacher Industrie

Shin-Etsu Chemical

Mitsui Kinzoku

Ganzhou Qiandong Rare Earth Group

Fujian Golden Dragon Rare-Earth

Dingnan Dahua Advanced Materials

Guangzhou Jianfeng Minmetals Rare Earth

GRIREM Advanced Materials

Yiyang Hongyuan Rare Earth

Key Questions Answered:

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

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