

Global Gadolinium Oxysulfide Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Gadolinium Oxysulfide market size is expected to reach \$ 82.17 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

Gadolinium oxysulfide, with the chemical formula Gd_2O_3S , is a rare-earth oxysulfide functional powder material. Industrial products mainly include undoped gadolinium oxysulfide powder and doped gadolinium oxysulfide phosphor powders activated by rare-earth ions such as terbium, praseodymium and europium, including $Gd_2O_3S:Tb$, $Gd_2O_3S:Pr$ and $Gd_2O_3S:Eu$. These materials offer strong X-ray absorption, stable luminescent performance and good chemical stability, and are primarily used as X-ray phosphors, scintillator powders, ceramic-grade raw powders for scintillator ceramics and functional materials for radiation imaging. In 2025, the global gadolinium oxysulfide sales is estimated at about 520 tons, with an average selling price of around USD 110 per kg.

The gadolinium oxysulfide powder value chain starts with rare-earth oxides such as gadolinium oxide, terbium oxide, praseodymium oxide and europium oxide, as well as sulfur sources, fluxes, reducing or protective atmospheres, high-purity chemical auxiliaries and powder-processing equipment.

The growth of the gadolinium oxysulfide powder market is primarily driven by sustained demand for stable rare-earth scintillation powders in medical X-ray imaging, industrial non-destructive testing, security inspection and upstream materials for CT detectors. Doped powders such as $Gd_2O_3S:Tb$ and $Gd_2O_3S:Pr$ offer strong X-ray absorption, good luminescent efficiency, mature synthesis processes and relatively stable material costs, making them suitable for X-ray phosphors, scintillator powders and ceramic-grade raw powders for scintillator ceramics. Demand is supported by medical imaging

equipment upgrades, automation in industrial inspection, airport and public-security screening upgrades, and the need for low-afterglow, high-brightness and particle-size-controlled powders in high-end CT and radiation imaging applications. At the same time, stricter requirements from downstream scintillator ceramics and high-performance imaging materials for powder purity, particle-size distribution, dopant uniformity and batch-to-batch consistency are pushing gadolinium oxysulfide powders toward high-purity, low-afterglow, ceramic-grade and customized functional powder products.

This report studies the global Gadolinium Oxysulfide production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Gadolinium Oxysulfide total production and demand, 2021-2032, (Tons)

Global Gadolinium Oxysulfide total production value, 2021-2032, (USD Million)

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

Global Gadolinium Oxysulfide consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Gadolinium Oxysulfide domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Gadolinium Oxysulfide 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 Nichia Corporation, Lorad Chemical, GRIREM Advanced Materials, FINETECH, Xiamen Jinwu New 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 Gadolinium Oxysulfide 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 Gadolinium Oxysulfide Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Gadolinium Oxysulfide Market, Segmentation by Type:

Undoped Gd₂O₃S Powder

Doped Gd₂O₃S Powder

Global Gadolinium Oxysulfide Market, Segmentation by Manufacturing Process:

Solid-State Reaction

Flux-Assisted Synthesis

Others

Global Gadolinium Oxysulfide Market, Segmentation by Grade:

Ceramic-Grade GOS Powder

Standard GOS Powder

Global Gadolinium Oxysulfide Market, Segmentation by Application:

Medical Imaging

Industrial Testing

Others

Companies Profiled:

Nichia Corporation

Lorad Chemical

GRIREM Advanced Materials

FINETECH

Xiamen Jinwu New Materials

Key Questions Answered:

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

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