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Global Gadolinium-160 Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/GD0F2908814CEN.html
Date: September 2026
Pages: 100
Price: US$ 4,480.00 (Single User License)
ID: GD0F2908814CEN

Abstracts

The global Gadolinium-160 market size is expected to reach $ million by 2032, rising at a market growth of %CAGR during the forecast period (2026-2032).

In 2025, global production of Gadolinium-160 was approximately 320 grams, with an average global market price of around $11,800 per gram. That year, total global production capacity for Gadolinium-160 reached 200 grams, and the industry's average gross profit margin stood at 24%. Gadolinium-160 (Gd-160) is a stable isotope of the rare-earth element gadolinium, characterized by an atomic number of 64 and a mass number of 160; it accounts for approximately 21.86% of natural gadolinium. As a stable nuclide, Gd-160 is non-radioactive; its primary value stems from the excellent neutron-interaction properties of gadolinium and its role as a fundamental nuclide in nuclear science, isotope research, and advanced materials. Unlike isotopes such as Gd-155 and Gd-157, which possess extremely high thermal neutron capture cross-sections, Gd-160 has a relatively low neutron absorption capacity. However, due to its stability and high natural abundance, it serves as a key component in the study of gadolinium isotope systems and is utilized in nuclear reaction cross-section measurements, isotope abundance analysis, the development of nuclear data databases, and research into rare-earth isotope separation. Gd-160 is also a significant subject of study for enriched gadolinium materials, holding value in isotope separation, nuclear physics experiments, and the preparation of high-purity rare-earth materials. With advancements in nuclear technology, medical isotope production, and isotope analysis techniques, the demand for high-purity gadolinium isotope materials is rising; as a vital part of the gadolinium isotope system, the market value of Gd-160 is concentrated in research-grade applications, high-purity materials, and isotope research.

The upstream sector of the Gd-160 industry chain primarily encompasses rare-earth ore

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development, the preparation of high-purity gadolinium raw materials, gadolinium isotope separation, and the supply of analytical and testing equipment. Natural gadolinium is mainly derived from sources such as monazite, bastnäsite, and ion-adsorption rare-earth ores, where it typically co-occurs with other rare-earth elements like lanthanum, cerium, neodymium, praseodymium, terbium, and dysprosium. Industrial production begins with processes such as ore beneficiation, acid leaching, solvent extraction, and ion exchange to obtain high-purity gadolinium oxide (Gd?O?) or gadolinium salts, followed by further purification and isotopic adjustment based on specific application requirements. Natural gadolinium consists of multiple stable isotopes, with Gadolinium-160 (Gd-160) having a natural abundance of approximately 21.86%. Since certain scientific research and nuclear technology applications require higher purity or specific isotopic ratios, processing techniques such as electromagnetic isotope separation, chemical exchange, and mass spectrometric separation are employed. The midstream sector of the industry chain—comprising isotope material suppliers, research institutions, high-purity material enterprises, and nuclear technology service platforms—is responsible for the purification, enrichment, and processing of Gd-160, as well as the development of standardized products. Depending on specific application requirements, midstream products primarily include high-purity Gd-160 oxide, Gd-160 chloride, Gd-160 nitrate, Gd-160 metal, and isotopic standard samples. In scientific research, emphasis is placed on the accuracy of Gd-160 isotopic abundance, chemical purity, impurity levels, and data traceability; consequently, quality control integrates high-resolution mass spectrometry, isotope ratio analysis, and advanced purification processes. In the fields of nuclear data research and isotope analysis, Gd-160 serves as an experimental standard material for investigating the nuclear reaction behavior of gadolinium, changes in isotopic composition, and the refinement of nuclear databases. Downstream applications of Gd-160 are concentrated in nuclear physics research, isotope analysis, geosciences, high-end research materials, and specific nuclear technology sectors. Within nuclear science, Gd-160—as a stable gadolinium isotope—is utilized in nuclear reaction experiments, nuclear data measurements, and isotopic abundance studies, providing fundamental data for refining nuclear databases and optimizing nuclear models. In geochemistry and materials analysis, gadolinium isotope systems are used to study geological processes, rare-earth element migration patterns, and changes in material composition, with high-purity Gd-160 standard samples enhancing the accuracy of isotopic test results. Furthermore, with the advancement of advanced nuclear energy, medical isotope production, and quantum materials research, the importance of high-purity stable isotope materials continues to grow, positioning Gd-160 as a foundational material in these research fields.

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As a key stable isotope within the natural gadolinium system, Gadolinium-160 (Gd-160) plays a vital role in nuclear data measurement, isotopic abundance analysis, geochemical research, and materials science experiments. With the continuous advancement of high-resolution mass spectrometry, isotope ratio analysis techniques, and precision detection equipment, there is a growing demand among research institutions for high-purity, low-impurity, and traceable stable isotope reference materials. Gd-160 serves as a crucial component in the study of gadolinium isotope systems, facilitating the refinement of nuclear databases, the investigation of rare-earth element migration patterns, and the analysis of isotope fractionation mechanisms. Driven by ongoing investment in fields such as deep-earth exploration, planetary science, and advanced materials research, the demand for high-purity Gd-160 reference materials is expected to maintain steady growth.

Although Gd-160 is not a primary neutron-absorbing isotope, its status as a key member of the gadolinium isotope system gives it significant value in nuclear materials research, isotope separation technology development, and the study of medical radionuclide supply chains. The rapid development of precision nuclear medicine and theranostics has drawn attention to novel diagnostic radionuclides like Terbium-155; consequently, the demand for enriched gadolinium isotope materials—which serve as a fundamental basis for accelerator-based nuclear reaction targets—is steadily rising. In the future, Gd-160-related materials are likely to enter the medical isotope supply chain increasingly in the form of high-purity isotope products, research targets, and materials for nuclear technology experiments, thereby driving the stable isotope materials market toward greater specialization.

Report Scope

This report studies the global Gadolinium-160 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Gadolinium-160 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-160 that contribute to its increasing demand across many markets.

Highlights and key features of the study

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Global Gadolinium-160 total production and demand, 2021-2032, (Gram)

Global Gadolinium-160 total production value, 2021-2032, (USD Million)

Global Gadolinium-160 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Gram), (based on production site)

Global Gadolinium-160 consumption by region & country, CAGR, 2021-2032 & (Gram)

U.S. VS China: Gadolinium-160 domestic production, consumption, key domestic manufacturers and share

Global Gadolinium-160 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Gram)

Global Gadolinium-160 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

Global Gadolinium-160 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

This report profiles key players in the global Gadolinium-160 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 NIDC, Rosatom, Neonest AB(BuyIsotope), CortecNet, Kinectrics, Eurisotop, American Elements, EvitaChem, 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-160 market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$

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Millions), volume (production, consumption) & (Gram) and average price (US$/g) 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-160 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Gadolinium-160 Market, Segmentation by Type:

Nuclear Reactor Irradiation Production

Isotope Separation Production

Global Gadolinium-160 Market, Segmentation by Product Form:

Gadolinium-160 Metal

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Gadolinium-160 Compounds

Global Gadolinium-160 Market, Segmentation by Purity Grade:

Industrial-grade Gadolinium-160

Research-grade Gadolinium-160

Global Gadolinium-160 Market, Segmentation by Abundance:

Natural Abundance Gadolinium-160 (20%–25%)

Enriched Gadolinium-160 (25%–70%)

High-abundance Gadolinium-160 (70%–95%)

Ultra-high-abundance Gadolinium-160 (?95%)

Global Gadolinium-160 Market, Segmentation by Application:

Medical Imaging

Nuclear Reactors

Materials Science

Research Applications

Companies Profiled:

NIDC

Rosatom

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Neonest AB(BuyIsotope)

CortecNet

Kinectrics

Eurisotop

American Elements

EvitaChem

Key Questions Answered

1. How big is the global Gadolinium-160 market?
2. What is the demand of the global Gadolinium-160 market?
3. What is the year over year growth of the global Gadolinium-160 market?
4. What is the total value of the global Gadolinium-160 market?
5. Who are the Major Players in the global Gadolinium-160 market?
6. What are the growth factors driving the market demand?

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