

Global Gadolinium-160 Market Growth 2026-2032

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Abstracts

The global Gadolinium-160 market size is predicted to grow from US\$ million in 2025 to US\$ million in 2032; it is expected to grow at a CAGR of %from 2026 to 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 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, bastn site, 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 (Gd₂O₃) 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.

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

LP Information, Inc. (LPI) ' newest research report, the “Gadolinium-160 Industry Forecast” looks at past sales and reviews total world Gadolinium-160 sales in 2025, providing a comprehensive analysis by region and market sector of projected Gadolinium-160 sales for 2026 through 2032. With Gadolinium-160 sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Gadolinium-160 industry.

This Insight Report provides a comprehensive analysis of the global Gadolinium-160 landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Gadolinium-160 portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Gadolinium-160 market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Gadolinium-160 and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Gadolinium-160.

This report presents a comprehensive overview, market shares, and growth opportunities of Gadolinium-160 market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Nuclear Reactor Irradiation Production

Isotope Separation Production

Segmentation by Product Form:

Gadolinium-160 Metal

Gadolinium-160 Compounds

Segmentation by Purity Grade:

Industrial-grade Gadolinium-160

Research-grade Gadolinium-160

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%)

Segmentation by Application:

Medical Imaging

Nuclear Reactors

Materials Science

Research Applications

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

NIDC

Rosatom

Neonest AB(BuyIsotope)

CortecNet

Kinectrics

Eurisotop

American Elements

EvitaChem

Key Questions Addressed in this Report

What is the 10-year outlook for the global Gadolinium-160 market?

What factors are driving Gadolinium-160 market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Gadolinium-160 market opportunities vary by end market size?

How does Gadolinium-160 break out by Type, by Application?

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