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Global Gadolinium-157 Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Gadolinium-157 market size was valued at US$ 22.47 million in 2025 and is forecast to a readjusted size of US$ 33.78 million by 2032 with a CAGR of 6.0% during review period.

In 2025, global Gadolinium-157 production was approximately 182 kilograms, with an average global market price of around $120 per gram. That year, total global production capacity for Gadolinium-157 reached 300 kilograms, and the industry's average gross profit margin stood at 35%. Gadolinium-157 is a stable isotope of the rare-earth element gadolinium (atomic number 64, mass number 157), with a natural abundance of approximately 15.65%. Unlike most radioactive isotopes, gadolinium-157 is not itself radioactive; however, due to its exceptionally high thermal neutron capture cross-section (approximately 255,000 barns)—making it one of the most potent neutron-absorbing stable nuclides known—it holds significant value in the nuclear industry, nuclear reactor control, advanced nuclear materials, and neutron detection. Upon absorbing a neutron, gadolinium-157 transforms into gadolinium-158 while emitting gamma rays; consequently, it is widely utilized as a neutron poison, burnable absorber, control material, and neutron shielding material in nuclear reactors. Furthermore, enriched gadolinium-157 serves as a key target material for producing medical radioisotopes such as terbium-155 (^155Tb) and terbium-156 (^156Tb), holding strategic importance within the supply chain for next-generation nuclear medicine theranostic nuclides. With the advancement of advanced nuclear reactors, compact nuclear energy systems, medical isotope production, and neutron science research, the demand for high-purity enriched gadolinium-157 is steadily rising; its market value lies primarily in high-abundance isotopic materials rather than standard natural gadolinium products.

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The upstream segment of the gadolinium-157 industry chain encompasses rare-earth ore resource development, gadolinium extraction, gadolinium compound preparation, and isotope separation facilities. Natural gadolinium is primarily 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, praseodymium, neodymium, 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 the application of isotope separation technologies to increase the gadolinium-157 abundance. Currently, the enrichment of Gadolinium-157 relies primarily on technologies such as electromagnetic isotope separation, centrifugal separation, and chemical exchange. While electromagnetic separation yields products with high isotopic abundance, it entails significant equipment investment and offers limited production capacity. Given that Gadolinium-157 accounts for only about 15.65% of natural gadolinium—whereas the nuclear industry and medical isotope production typically require higher abundance levels—isotope enrichment constitutes a critical link in the industrial chain. Key barriers to entry in the upstream sector center on the supply of rare-earth resources, capabilities for producing high-purity gadolinium materials, isotope separation efficiency, and the ability to ensure stable, large-scale supply. The midstream sector comprises isotope separation enterprises, nuclear material suppliers, research institutions, and medical isotope production platforms; these entities process high-purity gadolinium raw materials into enriched Gadolinium-157 products tailored to specific application requirements. Depending on the application, midstream products take various forms, including enriched gadolinium oxide, Gadolinium-157 chloride, Gadolinium-157 metal, sputtering targets, and neutron-absorbing materials for reactors. In the nuclear industry, materials must meet stringent standards for chemical purity, mechanical properties, and stable neutron-absorption capacity, requiring further processing into additives for ceramic fuel pellets, control rod materials, or burnable absorber materials. In the medical isotope sector, enriched Gadolinium-157 serves primarily as an accelerator target for producing novel diagnostic nuclides such as Terbium-155, necessitating high standards for isotopic abundance, target density, thermal stability, and recyclability. Future midstream development is expected to shift from the simple sale of enriched materials toward an integrated service model encompassing enriched gadolinium supply, target manufacturing, irradiation processing, and nuclide recovery. Downstream applications for Gadolinium-157 span the nuclear power industry, research reactors, neutron science facilities, medical isotope production organizations, and advanced nuclear technology enterprises. In the nuclear energy sector, Gadolinium-157’s exceptional neutron-absorption capability makes it an ideal burnable absorber for reactor fuel; it is used to regulate initial reactivity, mitigate power

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peaking during the fuel cycle, and enhance core safety. Furthermore, gadolinium materials are utilized in control rods, neutron shielding, and nuclear safety systems, serving as critical functional materials for light-water reactors, research reactors, and certain advanced reactor designs. In the realm of medical isotopes, enriched Gadolinium-157 serves as a vital target material for producing diagnostic nuclides such as Terbium-155, thereby supporting PET/SPECT imaging and the development of radiopharmaceuticals. With the advancement of precision nuclear medicine and targeted radionuclide therapy, the strategic value of Gadolinium-157—as a key raw material in the supply chain for novel terbium-based nuclides—continues to rise. Future market growth will be driven primarily by the construction of advanced nuclear energy facilities, the localization of medical isotope production, and the global expansion of the nuclear medicine industry, rather than by growth in traditional rare-earth consumption.

The development of advanced nuclear energy and the need for enhanced reactor safety are the primary drivers of the Gadolinium-157 (Gd-157) market. Possessing an exceptionally high thermal neutron capture cross-section, Gd-157 is one of the most valuable stable neutron-absorbing materials available; it serves as a burnable absorber, control material, and neutron-modulating agent in nuclear reactors. As global nuclear energy shifts toward greater safety, higher efficiency, and extended operating cycles, demand is rising for high-performance neutron-absorbing materials in advanced pressurized water reactors, small modular reactors (SMRs), research reactors, and future advanced nuclear systems. Because Gd-157 can effectively regulate core reactivity during the early stages of the fuel cycle, suppress power peaking, and enhance both fuel utilization and operational safety, it has become a key material choice in advanced nuclear fuel design. Looking ahead, the demand for nuclear-grade, high-purity Gd-157 is expected to grow steadily, driven by new global nuclear power installations and the upgrading of aging reactors.

Beyond traditional nuclear industry applications, enriched Gd-157 is emerging as a vital raw material for the production of novel diagnostic radionuclides. Gd-157 can serve as an accelerator target material for producing emerging medical isotopes such as Terbium-155 (^155Tb); as a SPECT diagnostic radionuclide, ^155Tb can be paired with the therapeutic radionuclide Terbium-161 (^161Tb) to create an elemental theranostic system. With the rapid advancement of targeted radionuclide therapy, precision oncology diagnostics, and integrated theranostic technologies, global demand for high-purity enriched isotope target materials continues to rise. In the future, the value of the Gd-157 industry will extend beyond mere material sales to encompass the entire nuclear medicine value chain, spanning "enriched Gd target supply, isotope production, and radiopharmaceutical development."

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Report Scope

This report is a detailed and comprehensive analysis for global Gadolinium-157 market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Gadolinium-157 market size and forecasts, in consumption value ($ Million), sales quantity (kg), and average selling prices (US$/g), 2021-2032

Global Gadolinium-157 market size and forecasts by region and country, in consumption value ($ Million), sales quantity (kg), and average selling prices (US$/g), 2021-2032

Global Gadolinium-157 market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (kg), and average selling prices (US$/g), 2021-2032

Global Gadolinium-157 market shares of main players, shipments in revenue ($ Million), sales quantity (kg), and ASP (US$/g), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Gadolinium-157

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

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This report profiles key players in the global Gadolinium-157 market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Rosatom, Neonest AB, NIDC, ISOFLEX, Trace Sciences, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Gadolinium-157 market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market Segmentation

Market segment by Type

Gadolinium-157 Compounds

Gadolinium-157 Metal

Gadolinium-157 Target Material

Market segment by Purity Grade

Industrial-grade Gadolinium-157

Nuclear-grade Gadolinium-157

Medical-grade Gadolinium-157

Market segment by Production Route

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Natural Gadolinium Separation and Enrichment

Electromagnetic Isotope Separation

Chemical Exchange Enrichment

Laser Isotope Separation

Market segment by Abundance

Natural Abundance Level (approx. 15.65%)

Medium Enrichment Level (50%–90%)

High Abundance Level (above 90%)

Ultra-high Abundance Level (above 99%)

Market segment by Application

Nuclear Industry

Medical

Science Research

Major players covered

Rosatom

Neonest AB

NIDC

ISOFLEX

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Trace Sciences

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Gadolinium-157 product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Gadolinium-157, with price, sales quantity, revenue, and global market share of Gadolinium-157 from 2021 to 2026.

Chapter 3, the Gadolinium-157 competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Gadolinium-157 breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021

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to 2026.and Gadolinium-157 market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Gadolinium-157.

Chapter 14 and 15, to describe Gadolinium-157 sales channel, distributors, customers, research findings and conclusion.

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