

Global Gadolinium-157 Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Gadolinium-157 market size is expected to reach \$ 33.78 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

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 (^{155}Tb) and terbium-156 (^{156}Tb), 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.

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_2O_3) 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 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 (^{155}Tb); as a SPECT diagnostic radionuclide, ^{155}Tb can be paired with the therapeutic radionuclide Terbium-161 (^{161}Tb) 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."

Report Scope

This report studies the global Gadolinium-157 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Gadolinium-157 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-157 that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Gadolinium-157 total production and demand, 2021-2032, (kg)

Global Gadolinium-157 total production value, 2021-2032, (USD Million)

Global Gadolinium-157 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)

Global Gadolinium-157 consumption by region & country, CAGR, 2021-2032 & (kg)

U.S. VS China: Gadolinium-157 domestic production, consumption, key domestic manufacturers and share

Global Gadolinium-157 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)

Global Gadolinium-157 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)

Global Gadolinium-157 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global Gadolinium-157 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 Rosatom, Neonest AB, NIDC, ISOFLEX, Trace Sciences, 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-157 market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (kg) 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-157 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Gadolinium-157 Market, Segmentation by Type:

Gadolinium-157 Compounds

Gadolinium-157 Metal

Gadolinium-157 Target Material

Global Gadolinium-157 Market, Segmentation by Purity Grade:

Industrial-grade Gadolinium-157

Nuclear-grade Gadolinium-157

Medical-grade Gadolinium-157

Global Gadolinium-157 Market, Segmentation by Production Route:

Natural Gadolinium Separation and Enrichment

Electromagnetic Isotope Separation

Chemical Exchange Enrichment

Laser Isotope Separation

Global Gadolinium-157 Market, Segmentation by Abundance:

Natural Abundance Level (approx. 15.65%)

Medium Enrichment Level (50%–90%)

High Abundance Level (above 90%)

Ultra-high Abundance Level (above 99%)

Global Gadolinium-157 Market, Segmentation by Application:

Nuclear Industry

Medical

Science Research

Companies Profiled:

Rosatom

Neonest AB

NIDC

ISOFLEX

Trace Sciences

Key Questions Answered

1. How big is the global Gadolinium-157 market?
2. What is the demand of the global Gadolinium-157 market?
3. What is the year over year growth of the global Gadolinium-157 market?
4. What is the total value of the global Gadolinium-157 market?
5. Who are the Major Players in the global Gadolinium-157 market?
6. What are the growth factors driving the market demand?

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