

Global Gadolinium-153 Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Gadolinium-153 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 Gadolinium-153 production was approximately 1,500 grams, with a global average market price of around \$6,400 per gram. Total global production capacity for Gadolinium-153 reached approximately 3,400 grams in 2025. The industry's average gross profit margin for this product stood at approximately 50%. Gadolinium-153 (^{153}Gd) is an artificial radioactive isotope of gadolinium, a lanthanide element with an atomic number of 64 and a mass number of 153. It is mainly produced by neutron irradiation of natural gadolinium targets or enriched gadolinium isotopes in nuclear reactors. ^{153}Gd has a half-life of approximately 240 days (around 7.8 months) and decays through electron capture (EC), emitting characteristic X-rays at approximately 41 keV and 103 keV. Due to its low-energy radiation emission, stable output characteristics, and suitable half-life, ^{153}Gd is widely used for medical imaging equipment calibration, bone densitometer calibration, radiation detector calibration, and scientific research applications.

The upstream of the gadolinium-153 industry chain mainly includes the supply of natural gadolinium resources, gadolinium isotope separation, preparation of enriched gadolinium targets, and nuclear reactor irradiation capabilities. Natural gadolinium primarily originates from rare earth minerals such as monazite and xenotime, with production and supply concentrated in rare earth resource regions such as China, the United States, and Australia. Industrial production of ^{153}Gd typically uses high-purity gadolinium oxide (Gd_2O_3) or enriched gadolinium isotopes as target materials, generating ^{153}Gd through neutron capture reactions in research or commercial nuclear reactors. Due to the involvement of nuclear material management, irradiation

facilities, and radiochemical processing, the upstream has high technical barriers and regulatory requirements. The midstream of the industry chain mainly includes the irradiation production of gadolinium-153, chemical separation and purification, activity detection, and the manufacture of sealed radioactive sources. The ^{153}Gd produced by nuclear reactions requires radiochemical treatment to remove impurity isotopes and improve radioactivity purity and specific activity. It is then prepared into different forms of radioactive sources according to application requirements, such as sealed sources, calibration sources, or research standard sources. Since gadolinium-153 is primarily used for equipment calibration rather than direct human treatment, its products typically need to meet stringent radioactive source certification, transportation regulations, and quality control requirements. Major global suppliers are concentrated in institutions with nuclear reactor resources, radioactive isotope production qualifications, and sealed source manufacturing capabilities. Downstream applications of gadolinium-153 are mainly concentrated in medical equipment calibration, radiation detection, and scientific research. The most significant application is in the calibration of bone densitometers (DXA) and some X-ray detection equipment, which improves the measurement accuracy of medical imaging equipment by stably releasing low-energy X-rays to simulate the absorption characteristics of human tissue. In addition, ^{153}Gd is also used in gamma-ray detector calibration, nuclear radiation monitoring equipment testing, industrial measurement systems, and isotope research. With the increasing global stock of medical imaging equipment, rising quality control requirements in nuclear medicine, and growing demand for high-precision radiation detection, the value of gadolinium-153 as a standard calibration source continues to rise.

The increasing global installed base of medical imaging equipment, particularly bone densitometers (DXA), X-ray systems, and radiation detection devices, is driving demand for highly stable radioactive calibration sources. Gadolinium-153 offers advantages including an appropriate half-life, stable energy emission, and well-defined X-ray characteristics, making it an important calibration source for bone densitometers and related imaging systems. With population aging, rising demand for osteoporosis screening, and stricter medical equipment quality-control standards, the application value of ^{153}Gd in medical calibration and measurement continues to increase.

In addition to medical equipment calibration, ^{153}Gd is widely used for the calibration of radiation detectors, gamma-ray measurement systems, nuclear safety monitoring equipment, and scientific research platforms. The development of nuclear medicine, industrial non-destructive testing, radiation protection, and nuclear safety applications is increasing demand for standardized and highly reliable radioactive sources. With the

expansion of nuclear facilities, stricter radiation monitoring regulations, and upgrades in laboratory metrology systems, ^{153}Gd is becoming increasingly important as a stable calibration source.

The development of the ^{153}Gd industry relies on high-purity gadolinium material preparation, isotope enrichment, reactor irradiation, and radiochemical separation technologies. In recent years, isotope production capabilities from research reactors and commercial nuclear facilities have improved, while automated radioactive source manufacturing, quality inspection, and safety encapsulation technologies have enhanced product consistency and supply reliability. In the future, companies and institutions with reactor resources, isotope production licenses, and sealed-source manufacturing capabilities will maintain competitive advantages in the global supply chain.

Report Scope

This report studies the global Gadolinium-153 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Gadolinium-153 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-153 that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Gadolinium-153 total production and demand, 2021-2032, (Gram)

Global Gadolinium-153 total production value, 2021-2032, (USD Million)

Global Gadolinium-153 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Gram), (based on production site)

Global Gadolinium-153 consumption by region & country, CAGR, 2021-2032 & (Gram)

U.S. VS China: Gadolinium-153 domestic production, consumption, key domestic manufacturers and share

Global Gadolinium-153 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Gram)

Global Gadolinium-153 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

Global Gadolinium-153 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

This report profiles key players in the global Gadolinium-153 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, ORNL(DOE IP), Eckert & Ziegler, Buyisotope(Neonest AB), 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-153 market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ 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-153 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Gadolinium-153 Market, Segmentation by Type:

Activity Concentration?60Ci/g

Activity Concentration?60Ci/g

Global Gadolinium-153 Market, Segmentation by Product Form:

Gadolinium-153 Sealed Radioactive Source

Gadolinium-153 Solution

Global Gadolinium-153 Market, Segmentation by Encapsulation Form of Radioactive Source:

Gadolinium-153 Point Source

Gadolinium-153 Planar Source

Gadolinium-153 Rod Source

Global Gadolinium-153 Market, Segmentation by Production Technology Pathway:

Reactor Neutron Irradiation

Enriched Isotope Target Preparation

Natural Gadolinium Target Preparation

Scientific Research/Experimental Target Preparation

Global Gadolinium-153 Market, Segmentation by Application:

Nuclear Medicine

Scientific Research

Companies Profiled:

Rosatom

ORNL(DOE IP)

Eckert & Ziegler

Buyisotope(Neonest AB)

Key Questions Answered:

1. How big is the global Gadolinium-153 market?
2. What is the demand of the global Gadolinium-153 market?
3. What is the year over year growth of the global Gadolinium-153 market?
4. What is the production and production value of the global Gadolinium-153 market?
5. Who are the key producers in the global Gadolinium-153 market?
6. What are the growth factors driving the market demand?

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