

Global Bismuth-207 Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Bismuth-207 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 Bismuth-207 production was approximately 180 grams, with an average global market price of around \$13,000 per gram. That year, total global production capacity for Bismuth-207 reached approximately 300 grams. The average gross profit margin for the industry stood at approximately 53%. Bismuth-207 (^{207}Bi) is an artificial radioactive isotope of bismuth, with an atomic number of 83 and a mass number of 207. It is mainly produced through accelerator-based nuclear reactions involving lead-206 (^{206}Pb) or bismuth target materials. ^{207}Bi is a relatively long-lived radionuclide with a half-life of approximately 31.55 years. It decays primarily through electron capture into stable lead-207 (^{207}Pb), emitting characteristic gamma rays, including major energy peaks around 570 keV and 1064 keV. Due to its long half-life, stable gamma-ray emission spectrum, and well-defined radiation characteristics, ^{207}Bi is widely used for gamma-ray detector calibration, nuclear spectroscopy, radioactive measurement standards, and nuclear physics research. Compared with short-lived radionuclides, ^{207}Bi offers a longer operational lifetime and improved stability, making it valuable for reference source applications.

The upstream segment of the Bismuth-207 (^{207}Bi) industry chain primarily encompasses bismuth resource supply, the preparation of high-purity bismuth materials, the processing of lead/bismuth targets, and the supply of nuclear reaction equipment. Natural bismuth resources are derived mainly from bismuth ores and as by-products of lead, copper, and tungsten smelting; refining these sources yields the high-purity metallic bismuth required for isotope production. Commercially available ^{207}Bi is typically produced using high-purity lead-206 (^{206}Pb) or bismuth targets subjected to

nuclear reactions, such as proton bombardment, in a cyclotron (e.g., via the $^{208}\text{Pb}(p, n)^{209}\text{Bi}$ reaction pathway). Given the requirements for high-energy accelerators, high-purity targets, and sophisticated radiochemical processing capabilities, the upstream sector presents significant technical barriers. Currently, global supply is concentrated among national laboratories, research institutions, and specialized isotope suppliers possessing the capability to produce radioactive isotopes. The midstream segment primarily involves the production of ^{209}Bi via irradiation, followed by radiochemical separation, purification, activity measurement, and the encapsulation/manufacturing of standard sources. ^{209}Bi produced in accelerators requires chemical separation to remove unreacted target material and other radioactive impurities, ensuring a product of high radiochemical purity. Depending on application requirements, ^{209}Bi is typically prepared as a solution, a point source, or a sealed radioactive source for the calibration of various radiation detection instruments. With a half-life of approximately 31.55 years, ^{209}Bi standard sources offer long-term stability, making them highly valuable in the fields of metrology and testing. Midstream production must adhere to rigorous quality control standards for radioactive materials, including accurate activity measurement, gamma-ray energy spectrum verification, and encapsulation safety testing. Downstream applications of ^{209}Bi are primarily focused on radiation detection equipment calibration, gamma-ray spectroscopy, nuclear physics experiments, and radioactive metrology. Notably, the calibration of gamma-ray detectors is a key application; the stable, multi-energy-level gamma-ray characteristics of ^{209}Bi facilitate the calibration of high-purity germanium (HPGe) detectors, scintillation detectors, and other nuclear radiation detection instruments. In addition, ^{207}Bi is utilized in nuclear spectroscopy research, the development of radioactive reference materials, and the establishment of laboratory metrology systems. With the advancement of nuclear safety monitoring, environmental radioactivity detection, and cutting-edge nuclear science research, the demand for long-term stable radioactive sources continues to grow, driving the sustained application of ^{207}Bi in the fields of scientific research and metrology.

With the development of the nuclear industry, stricter nuclear safety regulations, and continuous upgrades in radiation detection technologies, demand for highly stable radioactive reference sources is increasing. Bismuth-207 (^{207}Bi), with a relatively long half-life of approximately 31.55 years and well-defined characteristic gamma-ray emissions, has become an important calibration radionuclide for gamma spectroscopy systems, high-purity germanium (HPGe) detectors, and other radiation measurement instruments. In the future, continued development of nuclear facility monitoring, environmental radiation assessment, and laboratory metrology systems will further support demand for long-term stable calibration sources such as ^{207}Bi .

Bismuth-207 plays an important role in nuclear physics experiments, gamma-ray spectroscopy studies, and detector performance evaluation. Because its decay process produces multiple characteristic gamma-ray peaks, ^{207}Bi is widely used for detector energy calibration, efficiency testing, and validation of nuclear measurement methods. With the advancement of high-energy physics, nuclear structure research, low-background experiments, and advanced radiation detector technologies, demand for reference radioactive sources with long-term stable emission characteristics continues to increase. Emerging applications such as space radiation monitoring, particle physics experiments, and scientific instrument development also provide additional growth opportunities for ^{207}Bi .

The production of ^{207}Bi mainly relies on high-purity target preparation, accelerator irradiation, radiochemical separation, and reference source encapsulation technologies. In recent years, improvements in research and medical cyclotron technologies, optimization of isotope separation processes, and the adoption of automated radiochemical systems have enhanced the stability and consistency of ^{207}Bi production. Meanwhile, the development of international nuclear metrology systems and increasing requirements for traceability and certification of reference radioactive sources are encouraging suppliers to strengthen quality control capabilities. In the future, organizations with accelerator resources, radiochemical expertise, and reference source manufacturing capabilities will maintain competitive advantages in the supply chain.

Report Scope

This report studies the global Bismuth-207 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Bismuth-207 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 Bismuth-207 that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Bismuth-207 total production and demand, 2021-2032, (Gram)

Global Bismuth-207 total production value, 2021-2032, (USD Million)

Global Bismuth-207 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Gram), (based on production site)

Global Bismuth-207 consumption by region & country, CAGR, 2021-2032 & (Gram)

U.S. VS China: Bismuth-207 domestic production, consumption, key domestic manufacturers and share

Global Bismuth-207 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Gram)

Global Bismuth-207 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

Global Bismuth-207 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

This report profiles key players in the global Bismuth-207 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(DOE IP), Cyclotron Co., Ltd, Eckert & Ziegler, 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 Bismuth-207 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 Bismuth-207 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Bismuth-207 Market, Segmentation by Type:

Activity Concentration?50?Ci/mL

Activity Concentration?50?Ci/mL

Global Bismuth-207 Market, Segmentation by Product Form:

Bismuth-207 Solution

Bismuth-207 Sealed Source

Bismuth-207 Compound

Global Bismuth-207 Market, Segmentation by Purity Grade:

Research-grade Bismuth-207

High Radiochemical Purity Bismuth-207

Global Bismuth-207 Market, Segmentation by Production Method:

Accelerator-produced Bismuth-207

Reactor-produced Bismuth-207

Laboratory-produced Bismuth-207

Global Bismuth-207 Market, Segmentation by Application:

Nuclear Medicine

Scientific Research

Companies Profiled:

NIDC(DOE IP)

Cyclotron Co., Ltd

Eckert & Ziegler

Key Questions Answered:

1. How big is the global Bismuth-207 market?
2. What is the demand of the global Bismuth-207 market?
3. What is the year over year growth of the global Bismuth-207 market?
4. What is the production and production value of the global Bismuth-207 market?
5. Who are the key producers in the global Bismuth-207 market?
6. What are the growth factors driving the market demand?

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