

Global Polonium-210 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 Polonium-210 market size was valued at US\$ million in 2025 and is forecast to a readjusted size of US\$ million by 2032 with a CAGR of %during review period.

In 2025, global Polonium-210 production was approximately 217 grams, with an average global market price of around \$80,000 per gram. That year, total global production capacity for Polonium-210 reached approximately 500 grams. The average gross profit margin for the industry stood at about 22%. Polonium-210 is a highly radioactive isotope of the element polonium, characterized by an atomic number of 84, a mass number of 210, and a half-life of approximately 138.4 days; it primarily decays via alpha emission into stable lead-206. The alpha particles emitted by Polonium-210 possess an energy of approximately 5.3 MeV but have low penetrating power—typically unable to pass through intact skin or ordinary paper—meaning the risk of external exposure from a sealed source is relatively limited. However, due to its extremely high specific activity, once it enters the human body through inhalation, ingestion, or a wound, the alpha particles cause severe radiation damage to internal tissues. Polonium-210 occurs naturally in the uranium-238 decay chain and can also be produced artificially in nuclear reactors; its historical and current applications include static eliminators, nuclear science research, alpha particle sources, heat sources, and specialized neutron sources. Given its extreme toxicity, sensitive applications, and strict regulatory oversight, Polonium-210 is not a standard commercial isotope; global supply is concentrated among a limited number of nuclear facilities and licensed research or industrial institutions.

The upstream supply chain primarily encompasses high-purity bismuth-209 targets, research reactors, neutron irradiation facilities, hot cells, remote handling equipment,

radiation shielding systems, and radiochemical separation consumables. A typical artificial production route involves irradiating stable bismuth-209 with thermal neutrons: the $^{209}\text{Bi}(n, \gamma)^{210}\text{Bi}$ reaction first produces bismuth-210, which subsequently undergoes beta decay to form polonium-210. Irradiated bismuth targets must be transferred and processed within sealed hot cells, with polonium-210 recovered via volatilization, distillation, electrodeposition, or wet chemical processes. Certain lead-bismuth cooled reactors or accelerator-driven systems also generate polonium-210 as a byproduct during operation due to neutron capture by bismuth-209, necessitating dedicated monitoring, filtration, and extraction systems. Key barriers to entry in the upstream sector relate to neutron flux, irradiation cycles, target encapsulation, remote automated operations, control of volatile contamination, and nuclear material licensing. The midstream segment of the industry chain primarily comprises national nuclear laboratories, reactor-based isotope production facilities, radioactive source manufacturers, and nuclear technology research units; these entities are responsible for separating Polonium-210 from irradiated bismuth targets or polonium-bearing process streams and fabricating it into radioactive products tailored for specific applications. Product forms include Polonium-210 solutions, electrodeposited alpha sources, metallic or alloyed polonium sources, sealed static-elimination sources, and neutron sources combined with materials such as beryllium. Midstream production requires strict control over radionuclide purity, chemical purity, radioactivity levels, source uniformity, surface contamination, leakage rates, and seal integrity. Given the volatility and short half-life of polonium, production facilities must employ negative-pressure operations, enclosed ventilation, high-efficiency filtration, contamination monitoring, and waste recovery systems. The downstream segment primarily includes nuclear physics laboratories, radiochemistry research institutions, licensed industrial users, nuclear energy R&D units, and radiation metrology agencies. The alpha particles emitted by Polonium-210 ionize the surrounding air, leading to historical applications in static elimination for paper, film, textiles, and precision manufacturing environments; its alpha radiation is also utilized in detector research, radiochemistry experiments, and instrument calibration. When combined with beryllium, Polonium-210 generates neutrons via alpha-neutron reactions—a property historically exploited for neutron sources—and its high specific thermal power has led to its investigation as a specialized heat source. However, static control applications have largely shifted to corona discharge and other non-radioactive technologies, while Polonium-210 neutron sources face competition from Californium-252 and deuterium-tritium neutron generators; consequently, current demand is primarily concentrated in niche scientific research, nuclear engineering monitoring, and the maintenance of existing radioactive sources. Due to the severe risks associated with internal exposure to Polonium-210, downstream procurement, transport, usage, decommissioning, and waste disposal are subject to rigorous

regulation, precluding the existence of an open market comparable to that of ordinary industrial materials.

The demand for specialized static elimination and precision manufacturing remains the primary driver sustaining the existing market for Polonium-210. The alpha particles emitted by Polonium-210 ionize the surrounding air, neutralizing static electricity on the surfaces of paper, films, textiles, and precision components; consequently, it has historically been utilized in static eliminators and ion guns. Although non-radioactive technologies—such as corona discharge and ion blowers—have superseded many traditional applications, a residual demand persists for Polonium-210-based devices in specific cleanroom environments, semiconductor equipment maintenance, and specialized scenarios highly sensitive to particle adhesion. Incident records released by the U.S. Nuclear Regulatory Commission (NRC) in late 2024 indicate that static elimination devices containing 10 mCi Polonium-210 sources are still employed in cleanrooms to remove particulates from semiconductor equipment components, demonstrating that this application has not entirely exited the market.

When lead-bismuth eutectic (LBE) coolant is subjected to neutron irradiation, Bismuth-209 can undergo neutron capture to form Bismuth-210, which subsequently decays into Polonium-210; thus, controlling the volatilization, migration, deposition, and release of Polonium-210 is a critical safety issue for lead-bismuth-cooled nuclear systems. As the development of lead-bismuth-cooled small modular reactors, fast reactors, and accelerator-driven subcritical systems advances, industry demand will increasingly shift toward technologies for online monitoring, coolant purification, cover gas treatment, capture materials, and decommissioning decontamination, rather than the direct sale of the bare radionuclide. An IAEA technical exchange on LBE coolant scheduled for 2026 continues to identify Polonium-210 as a major challenge, indicating that this area will represent a significant growth sector for related engineering services and safety technologies.

Polonium-210 is primarily produced through neutron irradiation of Bismuth-209 in reactors—a process requiring hot cells, remote handling capabilities, sealed ventilation systems, contamination monitoring, and radioactive waste management—limiting the number of institutions worldwide capable of its production and separation. NRC data estimates global annual production at only about 100 grams, with industrial products typically entering the controlled distribution system in milligram-scale quantities or units of lower activity. Future supply models will not shift toward open spot markets but will continue to rely on government contracts, long-term project agreements, direct supply to licensed users, and turnkey delivery of sealed sources; meanwhile, the focus of supplier

competition will shift from mere radionuclide output to full-lifecycle capabilities, including source encapsulation, leak detection, licensing support, transport security, usage tracking, and decommissioning/recovery.

Report Scope

This report is a detailed and comprehensive analysis for global Polonium-210 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 Polonium-210 market size and forecasts, in consumption value (\$ Million), sales quantity (Gram), and average selling prices (US\$/g), 2021-2032

Global Polonium-210 market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Gram), and average selling prices (US\$/g), 2021-2032

Global Polonium-210 market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Gram), and average selling prices (US\$/g), 2021-2032

Global Polonium-210 market shares of main players, shipments in revenue (\$ Million), sales quantity (Gram), 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 Polonium-210

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

To assess competitive factors affecting the marketplace

This report profiles key players in the global Polonium-210 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 Avangard, NRD, RITVERC JSC, Flinn Scientific, Science Supply Australia, Direct Scientific, etc.

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

Polonium-210 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

Purity: >95%

Purity: >98%

Market segment by Product Form

Polonium-210 Radioactive Stock Solution

Electrodeposited Polonium-210 Source

Sealed Polonium-210 Radioactive Source

Market segment by Activity Level

Low Activity

Moderate Activity

High Activity

Market segment by Quality Grade

Nuclear Physics Research Grade

Industrial Sealed Source Grade

Market segment by Application

Static Eliminators

Calibrate Instruments

Others

Major players covered

Avangard

NRD

RITVERC JSC

Flinn Scientific

Science Supply Australia

Direct Scientific

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 Polonium-210 product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Polonium-210, with price, sales quantity, revenue, and global market share of Polonium-210 from 2021 to 2026.

Chapter 3, the Polonium-210 competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Polonium-210 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 to 2026. and Polonium-210 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 Polonium-210.

Chapter 14 and 15, to describe Polonium-210 sales channel, distributors, customers, research findings and conclusion.

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