

Global Polonium-210 Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Polonium-210 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 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 studies the global Polonium-210 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Polonium-210 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 Polonium-210 that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Polonium-210 total production and demand, 2021-2032, (Gram)

Global Polonium-210 total production value, 2021-2032, (USD Million)

Global Polonium-210 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Gram), (based on production site)

Global Polonium-210 consumption by region & country, CAGR, 2021-2032 & (Gram)

U.S. VS China: Polonium-210 domestic production, consumption, key domestic manufacturers and share

Global Polonium-210 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Gram)

Global Polonium-210 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

Global Polonium-210 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

This report profiles key players in the global Polonium-210 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Polonium-210 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 Polonium-210 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Polonium-210 Market, Segmentation by Type:

Purity: >95%

Purity: >98%

Global Polonium-210 Market, Segmentation by Product Form:

Polonium-210 Radioactive Stock Solution

Electrodeposited Polonium-210 Source

Sealed Polonium-210 Radioactive Source

Global Polonium-210 Market, Segmentation by Activity Level:

Low Activity

Moderate Activity

High Activity

Global Polonium-210 Market, Segmentation by Quality Grade:

Nuclear Physics Research Grade

Industrial Sealed Source Grade

Global Polonium-210 Market, Segmentation by Application:

Static Eliminators

Calibrate Instruments

Others

Companies Profiled:

Avangard

NRD

RITVERC JSC

Flinn Scientific

Science Supply Australia

Direct Scientific

Key Questions Answered

1. How big is the global Polonium-210 market?
2. What is the demand of the global Polonium-210 market?
3. What is the year over year growth of the global Polonium-210 market?
4. What is the total value of the global Polonium-210 market?
5. Who are the Major Players in the global Polonium-210 market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Polonium-210 Introduction
- 1.2 World Polonium-210 Supply & Forecast
 - 1.2.1 World Polonium-210 Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Polonium-210 Production (2021-2032)
 - 1.2.3 World Polonium-210 Pricing Trends (2021-2032)
- 1.3 World Polonium-210 Production by Region (Based on Production Site)
 - 1.3.1 World Polonium-210 Production Value by Region (2021-2032)
 - 1.3.2 World Polonium-210 Production by Region (2021-2032)
 - 1.3.3 World Polonium-210 Average Price by Region (2021-2032)
 - 1.3.4 North America Polonium-210 Production (2021-2032)
 - 1.3.5 Europe Polonium-210 Production (2021-2032)
 - 1.3.6 China Polonium-210 Production (2021-2032)
 - 1.3.7 Japan Polonium-210 Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Polonium-210 Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Polonium-210 Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Polonium-210 Demand (2021-2032)
- 2.2 World Polonium-210 Consumption by Region
 - 2.2.1 World Polonium-210 Consumption by Region (2021-2026)
 - 2.2.2 World Polonium-210 Consumption Forecast by Region (2027-2032)
- 2.3 United States Polonium-210 Consumption (2021-2032)
- 2.4 China Polonium-210 Consumption (2021-2032)
- 2.5 Europe Polonium-210 Consumption (2021-2032)
- 2.6 Japan Polonium-210 Consumption (2021-2032)
- 2.7 South Korea Polonium-210 Consumption (2021-2032)
- 2.8 ASEAN Polonium-210 Consumption (2021-2032)
- 2.9 India Polonium-210 Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Polonium-210 Production Value by Manufacturer (2021-2026)

- 3.2 World Polonium-210 Production by Manufacturer (2021-2026)
- 3.3 World Polonium-210 Average Price by Manufacturer (2021-2026)
- 3.4 Polonium-210 Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Polonium-210 Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Polonium-210 in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Polonium-210 in 2025
- 3.6 Polonium-210 Market: Overall Company Footprint Analysis
 - 3.6.1 Polonium-210 Market: Region Footprint
 - 3.6.2 Polonium-210 Market: Company Product Type Footprint
 - 3.6.3 Polonium-210 Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Polonium-210 Production Value Comparison
 - 4.1.1 United States VS China: Polonium-210 Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Polonium-210 Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Polonium-210 Production Comparison
 - 4.2.1 United States VS China: Polonium-210 Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Polonium-210 Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Polonium-210 Consumption Comparison
 - 4.3.1 United States VS China: Polonium-210 Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Polonium-210 Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Polonium-210 Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Polonium-210 Manufacturers, Headquarters and Production Site (States, Country)
 - 4.4.2 United States Based Manufacturers Polonium-210 Production Value (2021-2026)

- 4.4.3 United States Based Manufacturers Polonium-210 Production (2021-2026)
- 4.5 China Based Polonium-210 Manufacturers and Market Share
 - 4.5.1 China Based Polonium-210 Manufacturers, Headquarters and Production Site (Province, Country)
 - 4.5.2 China Based Manufacturers Polonium-210 Production Value (2021-2026)
 - 4.5.3 China Based Manufacturers Polonium-210 Production (2021-2026)
- 4.6 Rest of World Based Polonium-210 Manufacturers and Market Share, 2021-2026
 - 4.6.1 Rest of World Based Polonium-210 Manufacturers, Headquarters and Production Site (State, Country)
 - 4.6.2 Rest of World Based Manufacturers Polonium-210 Production Value (2021-2026)
 - 4.6.3 Rest of World Based Manufacturers Polonium-210 Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

- 5.1 World Polonium-210 Market Size Overview by Type: 2021 VS 2025 VS 2032
- 5.2 Segment Introduction by Type
 - 5.2.1 Purity: >95%
 - 5.2.2 Purity: >98%
- 5.3 Market Segment by Type
 - 5.3.1 World Polonium-210 Production by Type (2021-2032)
 - 5.3.2 World Polonium-210 Production Value by Type (2021-2032)
 - 5.3.3 World Polonium-210 Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PRODUCT FORM

- 6.1 World Polonium-210 Market Size Overview by Product Form: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Product Form
 - 6.2.1 Polonium-210 Radioactive Stock Solution
 - 6.2.2 Electrodeposited Polonium-210 Source
 - 6.2.3 Sealed Polonium-210 Radioactive Source
- 6.3 Market Segment by Product Form
 - 6.3.1 World Polonium-210 Production by Product Form (2021-2032)
 - 6.3.2 World Polonium-210 Production Value by Product Form (2021-2032)
 - 6.3.3 World Polonium-210 Average Price by Product Form (2021-2032)

7 MARKET ANALYSIS BY ACTIVITY LEVEL

- 7.1 World Polonium-210 Market Size Overview by Activity Level: 2021 VS 2025 VS

2032

7.2 Segment Introduction by Activity Level

7.2.1 Low Activity

7.2.2 Moderate Activity

7.2.3 High Activity

7.3 Market Segment by Activity Level

7.3.1 World Polonium-210 Production by Activity Level (2021-2032)

7.3.2 World Polonium-210 Production Value by Activity Level (2021-2032)

7.3.3 World Polonium-210 Average Price by Activity Level (2021-2032)

8 MARKET ANALYSIS BY QUALITY GRADE

8.1 World Polonium-210 Market Size Overview by Quality Grade: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Quality Grade

8.2.1 Nuclear Physics Research Grade

8.2.2 Industrial Sealed Source Grade

8.3 Market Segment by Quality Grade

8.3.1 World Polonium-210 Production by Quality Grade (2021-2032)

8.3.2 World Polonium-210 Production Value by Quality Grade (2021-2032)

8.3.3 World Polonium-210 Average Price by Quality Grade (2021-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World Polonium-210 Market Size Overview by Application: 2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

9.2.1 Static Eliminators

9.2.2 Calibrate Instruments

9.2.3 Others

9.3 Market Segment by Application

9.3.1 World Polonium-210 Production by Application (2021-2032)

9.3.2 World Polonium-210 Production Value by Application (2021-2032)

9.3.3 World Polonium-210 Average Price by Application (2021-2032)

10 COMPANY PROFILES

10.1 Avangard

10.1.1 Avangard Details

10.1.2 Avangard Major Business

- 10.1.3 Avangard Polonium-210 Product and Services
- 10.1.4 Avangard Polonium-210 Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.1.5 Avangard Recent Developments/Updates
- 10.1.6 Avangard Competitive Strengths & Weaknesses
- 10.2 NRD
 - 10.2.1 NRD Details
 - 10.2.2 NRD Major Business
 - 10.2.3 NRD Polonium-210 Product and Services
 - 10.2.4 NRD Polonium-210 Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.2.5 NRD Recent Developments/Updates
 - 10.2.6 NRD Competitive Strengths & Weaknesses
- 10.3 RITVERC JSC
 - 10.3.1 RITVERC JSC Details
 - 10.3.2 RITVERC JSC Major Business
 - 10.3.3 RITVERC JSC Polonium-210 Product and Services
 - 10.3.4 RITVERC JSC Polonium-210 Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.3.5 RITVERC JSC Recent Developments/Updates
 - 10.3.6 RITVERC JSC Competitive Strengths & Weaknesses
- 10.4 Flinn Scientific
 - 10.4.1 Flinn Scientific Details
 - 10.4.2 Flinn Scientific Major Business
 - 10.4.3 Flinn Scientific Polonium-210 Product and Services
 - 10.4.4 Flinn Scientific Polonium-210 Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.4.5 Flinn Scientific Recent Developments/Updates
 - 10.4.6 Flinn Scientific Competitive Strengths & Weaknesses
- 10.5 Science Supply Australia
 - 10.5.1 Science Supply Australia Details
 - 10.5.2 Science Supply Australia Major Business
 - 10.5.3 Science Supply Australia Polonium-210 Product and Services
 - 10.5.4 Science Supply Australia Polonium-210 Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.5.5 Science Supply Australia Recent Developments/Updates
 - 10.5.6 Science Supply Australia Competitive Strengths & Weaknesses
- 10.6 Direct Scientific
 - 10.6.1 Direct Scientific Details

- 10.6.2 Direct Scientific Major Business
- 10.6.3 Direct Scientific Polonium-210 Product and Services
- 10.6.4 Direct Scientific Polonium-210 Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.6.5 Direct Scientific Recent Developments/Updates
- 10.6.6 Direct Scientific Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

- 11.1 Polonium-210 Industry Chain
- 11.2 Polonium-210 Upstream Analysis
 - 11.2.1 Polonium-210 Core Raw Materials
 - 11.2.2 Main Manufacturers of Polonium-210 Core Raw Materials
- 11.3 Midstream Analysis
- 11.4 Downstream Analysis
- 11.5 Polonium-210 Production Mode
- 11.6 Polonium-210 Procurement Model
- 11.7 Polonium-210 Industry Sales Model and Sales Channels
 - 11.7.1 Polonium-210 Sales Model
 - 11.7.2 Polonium-210 Typical Distributors

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

- 13.1 Methodology
- 13.2 Research Process and Data Source
- 13.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Polonium-210 Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Polonium-210 Production Value by Region (2021-2026) & (USD Million)

Table 3. World Polonium-210 Production Value by Region (2027-2032) & (USD Million)

Table 4. World Polonium-210 Production Value Market Share by Region (2021-2026)

Table 5. World Polonium-210 Production Value Market Share by Region (2027-2032)

Table 6. World Polonium-210 Production by Region (2021-2026) & (Gram)

Table 7. World Polonium-210 Production by Region (2027-2032) & (Gram)

Table 8. World Polonium-210 Production Market Share by Region (2021-2026)

Table 9. World Polonium-210 Production Market Share by Region (2027-2032)

Table 10. World Polonium-210 Average Price by Region (2021-2026) & (US\$/g)

Table 11. World Polonium-210 Average Price by Region (2027-2032) & (US\$/g)

Table 12. Polonium-210 Major Market Trends

Table 13. World Polonium-210 Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Gram)

Table 14. World Polonium-210 Consumption by Region (2021-2026) & (Gram)

Table 15. World Polonium-210 Consumption Forecast by Region (2027-2032) & (Gram)

Table 16. World Polonium-210 Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Polonium-210 Producers in 2025

Table 18. World Polonium-210 Production by Manufacturer (2021-2026) & (Gram)

Table 19. Production Market Share of Key Polonium-210 Producers in 2025

Table 20. World Polonium-210 Average Price by Manufacturer (2021-2026) & (US\$/g)

Table 21. Global Polonium-210 Company Evaluation Quadrant

Table 22. World Polonium-210 Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Polonium-210 Production Site of Key Manufacturer

Table 24. Polonium-210 Market: Company Product Type Footprint

Table 25. Polonium-210 Market: Company Product Application Footprint

Table 26. Polonium-210 Competitive Factors

Table 27. Polonium-210 New Entrant and Capacity Expansion Plans

Table 28. Polonium-210 Mergers & Acquisitions Activity

Table 29. United States VS China Polonium-210 Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Polonium-210 Production Comparison, (2021 & 2025

& 2032) & (Gram)

Table 31. United States VS China Polonium-210 Consumption Comparison, (2021 & 2025 & 2032) & (Gram)

Table 32. United States Based Polonium-210 Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Polonium-210 Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Polonium-210 Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Polonium-210 Production (2021-2026) & (Gram)

Table 36. United States Based Manufacturers Polonium-210 Production Market Share (2021-2026)

Table 37. China Based Polonium-210 Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Polonium-210 Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Polonium-210 Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Polonium-210 Production, (2021-2026) & (Gram)

Table 41. China Based Manufacturers Polonium-210 Production Market Share (2021-2026)

Table 42. Rest of World Based Polonium-210 Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Polonium-210 Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Polonium-210 Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Polonium-210 Production, (2021-2026) & (Gram)

Table 46. Rest of World Based Manufacturers Polonium-210 Production Market Share (2021-2026)

Table 47. World Polonium-210 Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Polonium-210 Production by Type (2021-2026) & (Gram)

Table 49. World Polonium-210 Production by Type (2027-2032) & (Gram)

Table 50. World Polonium-210 Production Value by Type (2021-2026) & (USD Million)

Table 51. World Polonium-210 Production Value by Type (2027-2032) & (USD Million)

Table 52. World Polonium-210 Average Price by Type (2021-2026) & (US\$/g)

Table 53. World Polonium-210 Average Price by Type (2027-2032) & (US\$/g)

Table 54. World Polonium-210 Production Value by Product Form, (USD Million), 2021 & 2025 & 2032

Table 55. World Polonium-210 Production by Product Form (2021-2026) & (Gram)

Table 56. World Polonium-210 Production by Product Form (2027-2032) & (Gram)

Table 57. World Polonium-210 Production Value by Product Form (2021-2026) & (USD Million)

Table 58. World Polonium-210 Production Value by Product Form (2027-2032) & (USD Million)

Table 59. World Polonium-210 Average Price by Product Form (2021-2026) & (US\$/g)

Table 60. World Polonium-210 Average Price by Product Form (2027-2032) & (US\$/g)

Table 61. World Polonium-210 Production Value by Activity Level, (USD Million), 2021 & 2025 & 2032

Table 62. World Polonium-210 Production by Activity Level (2021-2026) & (Gram)

Table 63. World Polonium-210 Production by Activity Level (2027-2032) & (Gram)

Table 64. World Polonium-210 Production Value by Activity Level (2021-2026) & (USD Million)

Table 65. World Polonium-210 Production Value by Activity Level (2027-2032) & (USD Million)

Table 66. World Polonium-210 Average Price by Activity Level (2021-2026) & (US\$/g)

Table 67. World Polonium-210 Average Price by Activity Level (2027-2032) & (US\$/g)

Table 68. World Polonium-210 Production Value by Quality Grade, (USD Million), 2021 & 2025 & 2032

Table 69. World Polonium-210 Production by Quality Grade (2021-2026) & (Gram)

Table 70. World Polonium-210 Production by Quality Grade (2027-2032) & (Gram)

Table 71. World Polonium-210 Production Value by Quality Grade (2021-2026) & (USD Million)

Table 72. World Polonium-210 Production Value by Quality Grade (2027-2032) & (USD Million)

Table 73. World Polonium-210 Average Price by Quality Grade (2021-2026) & (US\$/g)

Table 74. World Polonium-210 Average Price by Quality Grade (2027-2032) & (US\$/g)

Table 75. World Polonium-210 Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 76. World Polonium-210 Production by Application (2021-2026) & (Gram)

Table 77. World Polonium-210 Production by Application (2027-2032) & (Gram)

Table 78. World Polonium-210 Production Value by Application (2021-2026) & (USD Million)

Table 79. World Polonium-210 Production Value by Application (2027-2032) & (USD Million)

Table 80. World Polonium-210 Average Price by Application (2021-2026) & (US\$/g)
Table 81. World Polonium-210 Average Price by Application (2027-2032) & (US\$/g)
Table 82. Avangard Basic Information, Manufacturing Base and Competitors
Table 83. Avangard Major Business
Table 84. Avangard Polonium-210 Product and Services
Table 85. Avangard Polonium-210 Production (Gram), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 86. Avangard Recent Developments/Updates
Table 87. Avangard Competitive Strengths & Weaknesses
Table 88. NRD Basic Information, Manufacturing Base and Competitors
Table 89. NRD Major Business
Table 90. NRD Polonium-210 Product and Services
Table 91. NRD Polonium-210 Production (Gram), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 92. NRD Recent Developments/Updates
Table 93. NRD Competitive Strengths & Weaknesses
Table 94. RITVERC JSC Basic Information, Manufacturing Base and Competitors
Table 95. RITVERC JSC Major Business
Table 96. RITVERC JSC Polonium-210 Product and Services
Table 97. RITVERC JSC Polonium-210 Production (Gram), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 98. RITVERC JSC Recent Developments/Updates
Table 99. RITVERC JSC Competitive Strengths & Weaknesses
Table 100. Flinn Scientific Basic Information, Manufacturing Base and Competitors
Table 101. Flinn Scientific Major Business
Table 102. Flinn Scientific Polonium-210 Product and Services
Table 103. Flinn Scientific Polonium-210 Production (Gram), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 104. Flinn Scientific Recent Developments/Updates
Table 105. Flinn Scientific Competitive Strengths & Weaknesses
Table 106. Science Supply Australia Basic Information, Manufacturing Base and Competitors
Table 107. Science Supply Australia Major Business
Table 108. Science Supply Australia Polonium-210 Product and Services
Table 109. Science Supply Australia Polonium-210 Production (Gram), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 110. Science Supply Australia Recent Developments/Updates
Table 111. Science Supply Australia Competitive Strengths & Weaknesses
Table 112. Direct Scientific Basic Information, Manufacturing Base and Competitors

Table 113. Direct Scientific Major Business

Table 114. Direct Scientific Polonium-210 Product and Services

Table 115. Direct Scientific Polonium-210 Production (Gram), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 116. Direct Scientific Recent Developments/Updates

Table 117. Direct Scientific Competitive Strengths & Weaknesses

Table 118. Global Key Players of Polonium-210 Upstream (Raw Materials)

Table 119. Global Polonium-210 Typical Customers

Table 120. Polonium-210 Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Polonium-210 Picture

Figure 2. World Polonium-210 Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Polonium-210 Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Polonium-210 Production (2021-2032) & (Gram)

Figure 5. World Polonium-210 Average Price (2021-2032) & (US\$/g)

Figure 6. World Polonium-210 Production Value Market Share by Region (2021-2032)

Figure 7. World Polonium-210 Production Market Share by Region (2021-2032)

Figure 8. North America Polonium-210 Production (2021-2032) & (Gram)

Figure 9. Europe Polonium-210 Production (2021-2032) & (Gram)

Figure 10. China Polonium-210 Production (2021-2032) & (Gram)

Figure 11. Japan Polonium-210 Production (2021-2032) & (Gram)

Figure 12. Polonium-210 Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Polonium-210 Consumption (2021-2032) & (Gram)

Figure 15. World Polonium-210 Consumption Market Share by Region (2021-2032)

Figure 16. United States Polonium-210 Consumption (2021-2032) & (Gram)

Figure 17. China Polonium-210 Consumption (2021-2032) & (Gram)

Figure 18. Europe Polonium-210 Consumption (2021-2032) & (Gram)

Figure 19. Japan Polonium-210 Consumption (2021-2032) & (Gram)

Figure 20. South Korea Polonium-210 Consumption (2021-2032) & (Gram)

Figure 21. ASEAN Polonium-210 Consumption (2021-2032) & (Gram)

Figure 22. India Polonium-210 Consumption (2021-2032) & (Gram)

Figure 23. Producer Shipments of Polonium-210 by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Polonium-210 Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Polonium-210 Markets in 2025

Figure 26. United States VS China: Polonium-210 Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Polonium-210 Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Polonium-210 Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Polonium-210 Production Market Share 2025

Figure 30. China Based Manufacturers Polonium-210 Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Polonium-210 Production Market Share 2025

Figure 32. World Polonium-210 Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Polonium-210 Production Value Market Share by Type in 2025

Figure 34. Purity: >95%

Figure 35. Purity: >98%

Figure 36. World Polonium-210 Production Market Share by Type (2021-2032)

Figure 37. World Polonium-210 Production Value Market Share by Type (2021-2032)

Figure 38. World Polonium-210 Average Price by Type (2021-2032) & (US\$/g)

Figure 39. World Polonium-210 Production Value by Product Form, (USD Million), 2021 & 2025 & 2032

Figure 40. World Polonium-210 Production Value Market Share by Product Form in 2025

Figure 41. Polonium-210 Radioactive Stock Solution

Figure 42. Electrodeposited Polonium-210 Source

Figure 43. Sealed Polonium-210 Radioactive Source

Figure 44. World Polonium-210 Production Market Share by Product Form (2021-2032)

Figure 45. World Polonium-210 Production Value Market Share by Product Form (2021-2032)

Figure 46. World Polonium-210 Average Price by Product Form (2021-2032) & (US\$/g)

Figure 47. World Polonium-210 Production Value by Activity Level, (USD Million), 2021 & 2025 & 2032

Figure 48. World Polonium-210 Production Value Market Share by Activity Level in 2025

Figure 49. Low Activity

Figure 50. Moderate Activity

Figure 51. High Activity

Figure 52. World Polonium-210 Production Market Share by Activity Level (2021-2032)

Figure 53. World Polonium-210 Production Value Market Share by Activity Level (2021-2032)

Figure 54. World Polonium-210 Average Price by Activity Level (2021-2032) & (US\$/g)

Figure 55. World Polonium-210 Production Value by Quality Grade, (USD Million), 2021 & 2025 & 2032

Figure 56. World Polonium-210 Production Value Market Share by Quality Grade in 2025

Figure 57. Nuclear Physics Research Grade

Figure 58. Industrial Sealed Source Grade

Figure 59. World Polonium-210 Production Market Share by Quality Grade (2021-2032)

Figure 60. World Polonium-210 Production Value Market Share by Quality Grade (2021-2032)

Figure 61. World Polonium-210 Average Price by Quality Grade (2021-2032) & (US\$/g)

Figure 62. World Polonium-210 Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 63. World Polonium-210 Production Value Market Share by Application in 2025

Figure 64. Static Eliminators

Figure 65. Calibrate Instruments

Figure 66. Others

Figure 67. World Polonium-210 Production Market Share by Application (2021-2032)

Figure 68. World Polonium-210 Production Value Market Share by Application (2021-2032)

Figure 69. World Polonium-210 Average Price by Application (2021-2032) & (US\$/g)

Figure 70. Polonium-210 Industry Chain

Figure 71. Polonium-210 Procurement Model

Figure 72. Polonium-210 Sales Model

Figure 73. Polonium-210 Sales Channels, Direct Sales, and Distribution

Figure 74. Methodology

Figure 75. Research Process and Data Source

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