

Global Cobalt 60 Radioactive Source Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Cobalt 60 Radioactive Source competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. Cobalt 60 radioactive sources are produced by exposing stable cobalt-59 to neutron radiation, typically in a nuclear reactor, to create the radioactive isotope cobalt-60. Cobalt-60 emits high-energy gamma rays (with energies of 1.17 MeV and 1.33 MeV), making it a crucial radiation source for applications in medical therapy, industrial radiography, food irradiation, and materials modification. In the healthcare sector, cobalt-60 is widely used for external beam radiotherapy in cancer treatment (e.g., gamma knife procedures). Industrially, it is applied for nondestructive testing (NDT), sterilization of medical supplies, and material aging simulations. Cobalt-60 sources are commonly manufactured as pellets, rods, or disks and are securely encapsulated in stainless steel or similar materials to ensure radiation safety during handling and use. In recent years, the cobalt-60 radioactive source market has demonstrated steady growth, driven by increasing demands across healthcare, industrial, and food safety sectors. The healthcare sector remains the largest application field for cobalt-60, particularly in developing countries where cobalt-based radiotherapy devices, such as gamma knives, continue to be widely utilized due to their affordability and reliability. In regions with limited healthcare infrastructure, cobalt-60 external beam therapy remains a cost-effective cancer treatment solution, ensuring steady demand. Industrial applications also contribute significantly to market stability. Cobalt-60 is extensively used for nondestructive testing (NDT) of welds and pipelines, as well as for sterilization of medical equipment and packaging materials. The increasing pace of industrialization, particularly in emerging economies, and ongoing infrastructure development projects (e.g., oil and gas pipelines, power transmission systems) are

boosting demand for industrial radiography using cobalt-60. Meanwhile, food irradiation, an emerging sector, is gaining traction globally due to tightening food safety regulations. Cobalt-60 irradiation helps eliminate pathogens, prolong shelf life, and reduce spoilage, offering a compelling value proposition for food manufacturers. From a supply chain perspective, cobalt-60 production is highly concentrated among a few key players, including BWXT (Canada), Rosatom (Russia), and China National Nuclear Corporation (CNNC). As production requires nuclear reactors and operates under stringent regulatory oversight, market entry barriers remain high, enhancing the bargaining power of established suppliers. However, this concentration also introduces supply chain vulnerabilities—any reactor shutdowns, geopolitical tensions, or regulatory changes could significantly impact availability and pricing. Geographically, North America and Europe have traditionally been the largest markets for cobalt-60, primarily for healthcare and industrial applications. However, the Asia-Pacific region, especially China and India, is showing faster growth driven by improvements in healthcare infrastructure and adoption of industrial quality assurance standards. Initiatives by international organizations such as the Food and Agriculture Organization (FAO) promoting food irradiation are further expanding the global application landscape for cobalt-60 sources. Looking ahead, the increasing adoption of linear accelerators (LINACs) in radiotherapy could pose some competitive pressure on cobalt-60 applications in healthcare. LINACs offer certain technological advantages, such as higher beam precision and reduced long-term radioactive waste. Nevertheless, due to cost considerations and technological accessibility, cobalt-60 will likely retain a strong presence in lower and middle-income countries for the foreseeable future. Moreover, emerging applications in agriculture, environment monitoring, and industrial material testing could open new growth avenues for cobalt-60 radioactive sources. In conclusion, the cobalt-60 radioactive source market is expected to maintain stable growth over the near term, while long-term prospects will depend on technological shifts, regulatory dynamics, supply chain resilience, and the successful development of new application areas.

The global Cobalt 60 Radioactive Source market size was estimated at USD 323.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 5.50% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Cobalt 60 Radioactive Source market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Cobalt 60 Radioactive Source market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Cobalt 60 Radioactive Source market.

Global Cobalt 60 Radioactive Source Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Nordion
China National Nuclear Corporation
Rosatom
Eckert & Ziegler Strahlen
Polatom
NTP
DIOXITEK

Market Segmentation (by Type)

Low Specific Activity

High Specific Activity

Market Segmentation (by Application)

Medical Application

Industrial Application

Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Cobalt 60 Radioactive Source Market

Overview of the regional outlook of the Cobalt 60 Radioactive Source Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Cobalt 60 Radioactive Source Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Cobalt 60 Radioactive Source, their

output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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