

Global Medical-grade Cobalt-60 Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Medical-grade Cobalt-60 market size is expected to reach \$ 139 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

Medical-grade Cobalt-60 is a high-purity, radioisotopic source produced through the neutron activation of stable Cobalt-59 in a nuclear reactor. It is specifically refined for use in medical radiotherapy equipment, such as Gamma Knives and teletherapy units. To be classified as 'medical-grade,' the source must meet stringent international standards regarding its specific activity, isotopic purity (minimizing contaminants like Cobalt-58), and physical dimensions, ensuring a high, consistent dose rate of gamma radiation required for the precise destruction of malignant tumors and neurological lesions.

In 2025, global Medical-grade Cobalt-60 production reached approximately 3.7 million Curie, average price was 26.14 USD/Curie, with gross margin 40%

Medical-grade Cobalt-60 is a high-activity gamma-emitting isotope primarily used in radiotherapy systems such as Gamma Knife and stereotactic radiosurgery. Compared to industrial-grade Co-60, medical-grade material requires stricter purity control, higher regulatory compliance, and more precise encapsulation standards due to its direct use in clinical treatment environments. The market is highly concentrated and tightly regulated, with supply controlled by a small number of nuclear reactor operators in countries such as Canada, Russia, and China. Production depends on neutron activation of Co-59 in nuclear reactors, creating significant entry barriers and limited supply elasticity. Demand is structurally driven by global cancer incidence growth and expanding radiotherapy adoption in emerging markets. While linear accelerators (LINACs) have partially displaced Co-60 in developed countries, cobalt-based

radiotherapy systems remain cost-effective and operationally simpler in developing regions. As a result, Co-60 continues to maintain a stable demand base with long replacement cycles. Supply dynamics are constrained by reactor availability, irradiation scheduling, and nuclear regulatory frameworks. Given the 5.27-year half-life, continuous replenishment is required, resulting in a 'rolling supply model' rather than one-off production cycles, which supports structurally stable to tightening pricing conditions over the long term. Overall, the Medical-grade Cobalt-60 market is characterized by high barriers, oligopolistic supply, stable demand growth, and long-cycle nuclear infrastructure dependence.

This report studies the global Medical-grade Cobalt-60 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Medical-grade Cobalt-60 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 Medical-grade Cobalt-60 that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Medical-grade Cobalt-60 total production and demand, 2021-2032, (Curie)

Global Medical-grade Cobalt-60 total production value, 2021-2032, (USD Million)

Global Medical-grade Cobalt-60 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Curie), (based on production site)

Global Medical-grade Cobalt-60 consumption by region & country, CAGR, 2021-2032 & (Curie)

U.S. VS China: Medical-grade Cobalt-60 domestic production, consumption, key domestic manufacturers and share

Global Medical-grade Cobalt-60 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Curie)

Global Medical-grade Cobalt-60 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Curie)

Global Medical-grade Cobalt-60 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Curie)

This report profiles key players in the global Medical-grade Cobalt-60 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 Nordion, China National Nuclear Corporation,

Rosatom, Eckert & Ziegler Strahlen, Polatom, NTP, DIOXITEK, 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 Medical-grade Cobalt-60 market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Curie) and average price (US\$/Curie) 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 Medical-grade Cobalt-60 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Medical-grade Cobalt-60 Market, Segmentation by Type:

High Specific Activity Cobalt-60

Low Specific Activity Cobalt-60

Global Medical-grade Cobalt-60 Market, Segmentation by Source Form:

Sealed Source

Source Module

Global Medical-grade Cobalt-60 Market, Segmentation by End User:

Source for Gamma Knife

Source for Cobalt Radiotherapy System

Other

Global Medical-grade Cobalt-60 Market, Segmentation by Application:

Medical Devices

Medical Radiotherapy

Others

Companies Profiled:

Nordion

China National Nuclear Corporation

Rosatom

Eckert & Ziegler Strahlen

Polatom

NTP

DIOXITEK

Key Questions Answered:

1. How big is the global Medical-grade Cobalt-60 market?
2. What is the demand of the global Medical-grade Cobalt-60 market?
3. What is the year over year growth of the global Medical-grade Cobalt-60 market?
4. What is the production and production value of the global Medical-grade Cobalt-60 market?
5. Who are the key producers in the global Medical-grade Cobalt-60 market?
6. What are the growth factors driving the market demand?

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