

Global Cobalt-55 Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Cobalt-55 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 Cobalt-55 production was approximately 335 grams, with an average global market price of around \$18,000 per gram. That year, total global production capacity for Cobalt-55 reached approximately 600 grams, and the industry's average gross profit margin was about 56%. Cobalt-55 is an artificial radioactive isotope of the element cobalt, characterized by an atomic number of 27 and a mass number of 55. It is primarily produced via nuclear reactions in particle accelerators—for instance, by bombarding target materials such as nickel-54 (^{54}Ni) or iron-56 (^{56}Fe) with proton beams. Cobalt-55 has a relatively short half-life of approximately 17.5 hours; it decays primarily into iron-55 (^{55}Fe) through electron capture, a process accompanied by the emission of characteristic gamma-ray signals. Due to its favorable properties as a radioactive tracer and its detectable gamma-ray energy spectrum, Cobalt-55 is considered a promising radionuclide for medical imaging, particularly in research related to Positron Emission Tomography (PET).

The upstream segment of the Cobalt-55 industry chain encompasses the supply of high-purity target materials, particle accelerator equipment, nuclear reaction production systems, and radiochemistry laboratory infrastructure. Production typically involves the use of stable isotope target materials—such as high-purity nickel or iron—and relies on high-energy proton beams generated by cyclotrons to induce the necessary nuclear reactions. The isotopic purity, chemical stability, and thermal load tolerance of the target materials directly influence production efficiency and the final radiochemical purity of the Cobalt-55. In terms of equipment, the upstream sector involves medical cyclotrons, high-energy particle beam systems, target station assemblies, automated radioactive

separation and purification equipment, and quality control instrumentation. Given the demanding technical requirements for Cobalt-55 production—which necessitate precise control over nuclear reaction conditions, irradiation times, and separation/purification workflows—manufacturers and research institutions generally require expertise in nuclear physics, radiochemistry, and isotope production. Furthermore, obtaining nuclear regulatory licenses, establishing radiation protection systems, and employing specialized technical personnel are essential prerequisites for entering this field. The midstream segment of the industry chain primarily comprises Cobalt-55 radionuclide producers, research institutions, and radiopharmaceutical R&D platforms. These entities typically utilize cyclotrons to produce Cobalt-55 and employ radiochemical processes—such as ion exchange, solvent extraction, and chromatographic separation—to obtain high-purity Cobalt-55 products that meet specific research and application standards. Cobalt-55 is primarily utilized in fields such as nuclear medicine imaging research, PET tracer development, tumor diagnostic research, and fundamental life sciences research. Possessing the characteristics of a metal element and emitting detectable radioactive signals, Cobalt-55 enables the development of cobalt-based complex tracers; it facilitates the study of metal ion metabolism in the human body and aids in analyzing the tumor microenvironment, protein expression, and changes in specific biological targets. In the medical field, Cobalt-55 is considered a key candidate radionuclide for the future development of various novel PET molecular probes, making it particularly suitable for research into radiopharmaceuticals that require metal coordination structures. Furthermore, Cobalt-55 holds potential for applications in areas such as precision tumor diagnosis, neurological and cardiovascular disease research, and the evaluation of drug mechanisms of action.

With the rapid advancement of precision medicine and molecular imaging technologies, the paradigm of nuclear medicine is shifting from traditional morphological detection toward precision diagnosis at the molecular level; this transition is a key driver for the development of Cobalt-55. As a PET radionuclide with metal coordination properties, Cobalt-55 enables the development of novel molecular tracers and holds potential for applications in areas such as tumor-targeted imaging, protein expression studies, metal metabolism analysis, and research into disease mechanisms. Compared to traditional PET radionuclides, Cobalt-55 can bind with a wide range of metal ligands, biomolecules, and targeted drug structures, offering new technical pathways for the precise localization and therapeutic assessment of complex diseases. Driven by the growing demand for early cancer screening, precision diagnosis, and personalized therapy, research institutions and pharmaceutical companies are increasing their investment in the R&D of novel PET radionuclides and innovative tracers, thereby laying the market foundation for the expanded application of Cobalt-55.

Secondly, the growth of the targeted radiopharmaceutical and nuclear medicine industries is accelerating the demand for Cobalt-55. In recent years, the global pharmaceutical industry has focused heavily on radionuclide-drug conjugates (RDCs), radioligand therapies (RLTs), and innovative nuclear medicines, fostering the development of a comprehensive industry chain that spans from diagnostic to therapeutic radionuclides. Although Cobalt-55 is currently primarily utilized in preclinical research and experimental phases, it offers unique advantages in the labeling of metal-based radiopharmaceuticals, the development of PET tracers, and pharmacokinetic evaluation. As more cobalt-complex tracers and novel nuclear medicines enter the R&D pipeline, Cobalt-55 is poised to become a significant complementary radionuclide in the fields of innovative molecular imaging and precision medicine.

Thirdly, advancements in cyclotron technology and enhanced radioisotope production capabilities provide the technical support necessary for the industrialization of Cobalt-55. Cobalt-55 is primarily produced artificially using cyclotrons, a process that demands high-purity target materials, precise control of high-energy particle beams, sophisticated radiochemical separation and purification techniques, and robust quality control capabilities. In recent years, the expansion of medical cyclotron networks and the accelerated construction of regional nuclear medicine centers have progressively improved the conditions for the localized production and application of short-lived radionuclides. At the same time, advancements in automated radiochemical synthesis equipment, target system optimization, and separation and purification technologies help improve Cobalt-55 production efficiency and reduce production losses, while facilitating the transition from a research-oriented supply model to a more stable, specialized supply model.

Report Scope

This report studies the global Cobalt-55 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Cobalt-55 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 Cobalt-55 that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Cobalt-55 total production and demand, 2021-2032, (Gram)

Global Cobalt-55 total production value, 2021-2032, (USD Million)

Global Cobalt-55 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Gram), (based on production site)

Global Cobalt-55 consumption by region & country, CAGR, 2021-2032 & (Gram)

U.S. VS China: Cobalt-55 domestic production, consumption, key domestic manufacturers and share

Global Cobalt-55 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Gram)

Global Cobalt-55 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

Global Cobalt-55 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

This report profiles key players in the global Cobalt-55 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), AMT Isotopes, Cyclotron JSC, 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 Cobalt-55 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 Cobalt-55 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Cobalt-55 Market, Segmentation by Type:

Activity Concentration?5mCi/mL

Activity Concentration?5mCi/mL

Global Cobalt-55 Market, Segmentation by Chemical Form:

Cobalt-55 Chloride

Cobalt-55 Labeled Compounds

Cobalt-55 Complex Radiopharmaceutical Precursor

Global Cobalt-55 Market, Segmentation by Purity Grade:

Research-grade Cobalt-55

Clinical-grade Cobalt-55

Global Cobalt-55 Market, Segmentation by Production Method:

Cyclotron

Nuclear Facility Production

Global Cobalt-55 Market, Segmentation by Application:

Nuclear Medicine

Scientific Research

Companies Profiled:

NIDC(DOE IP)

AMT Isotopes

Cyclotron JSC

Key Questions Answered:

1. How big is the global Cobalt-55 market?
2. What is the demand of the global Cobalt-55 market?
3. What is the year over year growth of the global Cobalt-55 market?
4. What is the production and production value of the global Cobalt-55 market?
5. Who are the key producers in the global Cobalt-55 market?
6. What are the growth factors driving the market demand?

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