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Global Curium-248 Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Curium-248 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 production of Curium-248 is approximately 68 grams, with an average global market price of around $129,000 per gram. The total global production capacity for Curium-248 in 2025 is approximately 100 grams. The average gross profit margin for the industry stands at 75%. Curium-248 (Cm-248) is an artificially produced radioactive isotope of the actinide element curium, with an atomic number of 96 and a mass number of 248. It has a relatively long half-life of approximately 348,000 years and is typically produced through complex nuclear reactions involving neutron capture processes on heavier actinide materials such as plutonium and americium in high-flux reactors or accelerator-based facilities. Due to its extremely low natural abundance and sophisticated production requirements, Curium-248 is considered a highly specialized nuclear material rather than a conventional industrial product. Curium-248 is mainly used in nuclear science research, studies of superheavy element synthesis, nuclear reaction mechanisms, and fundamental radiochemistry research. Its unique nuclear properties make it valuable for investigating actinide behavior, nuclear stability, and heavy-element formation processes. Compared with isotopes such as Curium-242 and Curium-244, Curium-248 has more limited commercial applications due to its long half-life and lower specific activity, with usage primarily concentrated in national laboratories, research institutions, and advanced nuclear science programs.

The upstream segment of the Curium-248 supply chain includes nuclear fuel cycle systems, heavy-element target materials, nuclear reactor facilities, and radiochemical separation technologies. Curium-248 is generally produced from transuranic materials such as plutonium and americium through long-term neutron irradiation in research

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reactors, followed by complex chemical separation, purification, and isotope processing. The upstream chain involves high-flux research reactors, hot-cell facilities, remote handling equipment, radioactive waste management systems, and nuclear-grade chemical materials. Due to strict nuclear material regulations, radiation safety requirements, and technical complexity, Curium-248 production capabilities are mainly controlled by a limited number of national laboratories, nuclear research centers, and advanced nuclear technology institutions. The midstream segment of the Curium-248 industry mainly consists of isotope production organizations, radiochemical processing facilities, and nuclear material supply services. This stage involves irradiation production, chemical separation, purification, quality analysis, and secure packaging of Curium-248. Due to strict radioactive material handling requirements, production must be performed in specialized hot-cell environments using advanced analytical techniques to verify isotope purity, impurity levels, and nuclear characteristics. Global commercial availability of Curium-248 remains extremely limited, with production mainly conducted by national-level nuclear research organizations in regions such as the United States, Europe, and Russia. Supply is typically based on scientific cooperation programs, dedicated research projects, or institutional agreements rather than conventional commercial sales. The downstream applications of Curium-248 are mainly concentrated in fundamental nuclear science research, superheavy element studies, nuclear physics experiments, and radiochemistry research. One of its important applications is the synthesis of superheavy elements, where Curium targets are used in nuclear reactions with other heavy elements to explore new elements and nuclear structures. Curium-248 is also valuable for studying actinide chemistry, nuclear reaction cross sections, and advanced nuclear technologies. Due to its high production cost, limited availability, and strict regulatory requirements, Curium-248 has not developed into a large-scale commercial market and is primarily supplied to universities, national laboratories, and specialized nuclear research institutions. With continued advances in nuclear science and isotope research, Curium-248 will continue to play an important role in fundamental scientific investigations.

Curium-248 (Cm-248), an artificially produced actinide radioactive isotope, is primarily driven by demand from fundamental nuclear science and heavy-element research. Due to its relatively long half-life and unique nuclear properties, Curium-248 is valuable for studying actinide chemistry, nuclear reactions, and heavy-element formation mechanisms. In superheavy element research, Curium-248 can serve as an important target material for nuclear reactions with high-energy ion beams, supporting investigations into new elements, nuclear shell structures, and theories of nuclear stability. Continued advancement in nuclear physics, radiochemistry, and fundamental science research provides stable demand for high-purity actinide isotopes such as

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Curium-248.

Superheavy element synthesis is one of the important application areas driving Curium-248 development. International nuclear research programs continue to explore superheavy elements, nuclear reaction cross sections, and the island of stability theory, requiring various actinide isotopes as target materials. Due to its relatively high mass number and suitable nuclear properties, Curium-248 has research value in certain heavy-ion nuclear reaction experiments. Furthermore, advances in advanced nuclear energy technologies, nuclear transmutation research, and nuclear material studies are increasing demand for actinide behavior analysis, nuclear data measurement, and radiochemical separation technologies. As international nuclear research collaboration expands, Curium-248 is expected to maintain stable demand in specialized scientific applications.

Another key driver for Curium-248 development is the advancement of isotope production and separation technologies. Since Curium-248 does not occur naturally in significant quantities, it must be produced through high-flux reactors, neutron irradiation processes, and complex radiochemical separation methods. Improvements in reactor capabilities, isotope separation technologies, and automated hot-cell operations have enhanced the production and handling capacity of transuranium elements. Meanwhile, advanced mass spectrometry, nuclear material analysis, and secure packaging technologies have improved quality control. In the future, modernization of nuclear research facilities may enhance production efficiency and supply reliability, although supply will remain highly concentrated due to strict nuclear regulations.

This report studies the global Curium-248 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Curium-248 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 Curium-248 that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Curium-248 total production and demand, 2021-2032, (Gram)
Global Curium-248 total production value, 2021-2032, (USD Million)
Global Curium-248 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Gram), (based on production site)

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Global Curium-248 consumption by region & country, CAGR, 2021-2032 & (Gram)
U.S. VS China: Curium-248 domestic production, consumption, key domestic manufacturers and share
Global Curium-248 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Gram)
Global Curium-248 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Gram)
Global Curium-248 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

This report profiles key players in the global Curium-248 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), Rosatom, ISOFLEX USA, 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 Curium-248 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 Curium-248 Market, By Region:

United States

China

Europe

Japan

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South Korea

ASEAN

India

Rest of World

Global Curium-248 Market, Segmentation by Type:

High-specific Activity

Low-specific Activity

Global Curium-248 Market, Segmentation by Purity Grade:

Nuclear Research Grade Curium-248

High Purity Curium-248

Experimental Grade Curium-248

Global Curium-248 Market, Segmentation by Production Source:

Reactor-produced Curium-248

Accelerator-produced Curium-248

Global Curium-248 Market, Segmentation by Physical Form:

Curium-248 Oxide

Curium-248 Solution

Curium-248 Target Material

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Global Curium-248 Market, Segmentation by Application:

Isotope Production

Scientific Research

Companies Profiled:

NIDC(DOE IP)

Rosatom

ISOFLEX USA

Key Questions Answered:
1. How big is the global Curium-248 market?
2. What is the demand of the global Curium-248 market?
3. What is the year over year growth of the global Curium-248 market?
4. What is the production and production value of the global Curium-248 market?
5. Who are the key producers in the global Curium-248 market?
6. What are the growth factors driving the market demand?

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