

Global Uranium-230 Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Uranium-230 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 Uranium-230 production was approximately 43 grams, with an average global market price of around \$124,000 per gram. That year, total global production capacity for Uranium-230 reached 120 grams, and the industry's average gross profit margin stood at 35%. Uranium-230 is an artificial radioactive isotope of uranium with an atomic number of 92 and a mass number of 230. It has a half-life of approximately 20.8 days and primarily decays via alpha emission into thorium-226 (which has a half-life of about 30.6 minutes), subsequently releasing multiple alpha particles as it proceeds along the decay chain. Due to the high linear energy transfer and short tissue range of alpha particles, uranium-230 and its daughter isotope, thorium-226, are being investigated for targeted alpha therapy; they are particularly promising for treating micrometastases, residual lesions, and disseminated cancer cells. Uranium-230 can also serve as a "parent nuclide" in radionuclide generators, allowing for the periodic separation of thorium-226 and thereby providing a localized supply of short-lived therapeutic radionuclides. However, uranium-230 remains in the research stage regarding production processes, chelation chemistry, and preclinical applications, and a routine commercial market for this medical isotope has not yet been established.

The upstream segment of the industry chain primarily encompasses high-purity thorium-232 metal targets or protactinium-231 targets, medium-to-high-energy proton accelerators, irradiation target stations, hot cells, remote handling equipment, radiation shielding systems, and materials for ion exchange and solvent extraction. One production route with a solid research foundation involves proton irradiation of thorium-232: the $^{232}\text{Th}(p,3n)^{230}\text{Pa}$ reaction first produces protactinium-230 (half-life

~17.4 days), which then decays into uranium-230. Another route involves proton irradiation of the scarce protactinium-231 target to directly produce uranium-230 via the $^{231}\text{Pa}(p,2n)^{230}\text{U}$ reaction. The thorium target route offers relatively good raw material availability and potential for co-production with other medical radionuclides like actinium-225; however, it generates fission products as well as other uranium and protactinium isotopes, necessitating highly selective separation processes. Key upstream technical challenges lie in high-energy proton beam technology, the fabrication of radioactive thorium targets, the control of protactinium and uranium impurities, target material recovery, and automated operations within highly radioactive environments. The midstream sector of the industry chain primarily comprises national laboratories, medical isotope production centers, radiochemistry platforms, and radiopharmaceutical R&D institutions; these entities are responsible for rapidly separating Protactinium-230 (Pa-230) and Uranium-230 (U-230) from irradiated thorium targets and converting the products into chemical forms suitable for generator loading or radiolabeling. Publicly available research has established dual-column ion-exchange and extraction chromatography processes capable of simultaneously recovering high-purity U-230 and Pa-230 from proton-irradiated Thorium-232 (Th-232) targets and their fission products. U-230 can be further processed into a U-230/Th-226 generator, utilizing the chemical differences between the two elements to repeatedly separate Thorium-226 (Th-226); such systems have achieved Th-226 separation yields exceeding 96%, delivering the product in a solution form suitable for subsequent chelation reactions. Another core midstream task involves developing chelating agents capable of stably binding uranyl ions *in vivo* to prevent U-230 from dissociating from its targeting vector and depositing in non-target organs; several multidentate ligands have already demonstrated favorable complexation stability in *in vitro* and animal studies. The downstream sector primarily encompasses oncology radiopharmaceutical developers, nuclear medicine centers, preclinical research institutions, and national nuclear medicine laboratories. U-230 can be directly conjugated to antibodies, peptides, or small-molecule targeting vectors for use as an alpha-emitting therapeutic radionuclide with a relatively long half-life; alternatively, it can serve as the parent isotope in a U-230/Th-226 generator, allowing for the on-demand separation of short-lived Th-226 at hospitals or regional radiopharmacies. The U-230/Th-226 decay chain generates multiple alpha particles in succession, theoretically delivering a high total radiation dose to target cells, which makes it a promising candidate for treating refractory tumors, micrometastases, and residual disease. Its industrialization remains constrained by factors such as the complexity of uranium coordination chemistry, the potential for *in vivo* migration of daughter nuclides, limited production facilities, insufficient dosimetry data, and the lack of mature GMP manufacturing and regulatory standards; in the short term, demand is primarily driven by research batches and

preclinical projects, while the ultimate development of a commercial market depends on stable chelation systems, animal safety profiles, and clinical evidence from human studies.

The surging interest in targeted alpha therapy is the primary driver behind the R&D and industrialization of Uranium-230. Characterized by high linear energy transfer (LET) and a short tissue range, alpha particles induce irreparable DNA double-strand breaks within a localized area, making them particularly suitable for treating micrometors, disseminated lesions, and micrometastases. With a half-life of approximately 20.8 days, Uranium-230 serves both as a potential therapeutic radionuclide and as the parent isotope for Thorium-226; the Uranium-230/Thorium-226 decay chain releases multiple alpha particles, theoretically offering high therapeutic efficacy per unit of radionuclide. Amidst supply shortages and high costs associated with alpha-emitters like Actinium-225, research institutions are evaluating candidates suitable for large-scale production, thereby keeping Uranium-230 in the spotlight. However, its therapeutic value requires further validation through systematic studies on animal efficacy, dosimetry, and toxicology, and it has not yet reached the stage of mature clinical application.

The Uranium-230/Thorium-226 generator model represents its most distinctive application pathway. Thorium-226 has a half-life of only about 30.6 minutes, making long-distance distribution from centralized production facilities impractical; conversely, the longer-lived Uranium-230 can be loaded into a generator to allow for the on-demand separation of Thorium-226 at regional nuclear medicine centers or radiopharmacies. This model—combining the transport of a long-lived parent isotope with the on-site preparation of a short-lived daughter isotope—promises to overcome the supply radius limitations associated with short-lived alpha-emitters while facilitating repeated elutions and continuous research use. Publicly available research has already confirmed the feasibility of separation using the Uranium-230/Thorium-226 generator and has led to the development of rapid elution and "reverse generator" processes; consequently, the industry's focus is likely to shift gradually from the standalone sale of Uranium-230 stock solutions toward generator assemblies, automated separation modules, and supporting quality control services.

Trends on the supply side will center on the co-production of Thorium targets, automated separation technologies, and the scaling up of production. Currently, a practically viable approach involves bombarding Thorium-232 with high-energy protons to first produce Protactinium-230, which then decays into Uranium-230. This route leverages existing medical isotope accelerator facilities and offers the potential for co-

production with other thorium-target products—such as Actinium-225—thereby enhancing the overall utilization efficiency of both the proton beam and the target material.

Research published in 2024 has established a process for the simultaneous separation of Protactinium-230 and Uranium-230 from proton-irradiated thorium targets and reported high recovery rates, indicating that the technology is advancing from basic feasibility studies toward reproducible batch production.

Report Scope

This report studies the global Uranium-230 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Uranium-230 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 Uranium-230 that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Uranium-230 total production and demand, 2021-2032, (Gram)

Global Uranium-230 total production value, 2021-2032, (USD Million)

Global Uranium-230 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Gram), (based on production site)

Global Uranium-230 consumption by region & country, CAGR, 2021-2032 & (Gram)

U.S. VS China: Uranium-230 domestic production, consumption, key domestic manufacturers and share

Global Uranium-230 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Gram)

Global Uranium-230 production by Type, production, value, CAGR, 2021-2032,

(USD Million) & (Gram)

Global Uranium-230 production by Application, production, value, CAGR,
2021-2032, (USD Million) & (Gram)

This report profiles key players in the global Uranium-230 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 LANL, NIDC(DOE IP), RITVERC JSC, Uranium, 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 Uranium-230 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 Uranium-230 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Uranium-230 Market, Segmentation by Type:

Purity: >95%

Purity: >98%

Global Uranium-230 Market, Segmentation by Product Form:

Uranium-230 Stock Solution

Uranium-230 Radiochemical Intermediate

Uranium-230/Thorium-226 Generator

Global Uranium-230 Market, Segmentation by Production Route:

Proton Irradiation of Thorium-232

Direct Proton Production from Protactinium-231

Proton Irradiation of Thorium Targets

Global Uranium-230 Market, Segmentation by Quality Grade:

Nuclear Physics Research Grade

Preclinical Research Grade

Global Uranium-230 Market, Segmentation by Application:

Cancer Treatment

Scientific Research

Companies Profiled:

LANL

NIDC(DOE IP)

RITVERC JSC

Uranium

Key Questions Answered

1. How big is the global Uranium-230 market?
2. What is the demand of the global Uranium-230 market?
3. What is the year over year growth of the global Uranium-230 market?
4. What is the total value of the global Uranium-230 market?
5. Who are the Major Players in the global Uranium-230 market?
6. What are the growth factors driving the market demand?

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