

Global Thorium-227 Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G23C08CE6669EN.html>

Date: August 2026

Pages: 72

Price: US\$ 3,480.00 (Single User License)

ID: G23C08CE6669EN

Abstracts

According to our (Global Info Research) latest study, the global Thorium-227 market size was valued at US\$ 109 million in 2025 and is forecast to a readjusted size of US\$ 231 million by 2032 with a CAGR of 11.3% during review period.

In 2025, global production of Thorium-227 is approximately 163 grams, with a global average market price of around \$650,000 per gram. The total global production capacity for Thorium-227 in 2025 is approximately 320 grams. The average gross profit margin for the industry stands at 84%. Thorium-227 (Th-227) is an artificially produced radioactive actinide isotope of thorium, with an atomic number of 90 and a mass number of 227. It is mainly generated through decay chains involving heavy radioactive elements such as radium and actinium, and can also be produced through artificial nuclear reactions. Thorium-227 has a half-life of approximately 18.7 days and emits high-energy alpha particles, making it a valuable isotope for modern nuclear medicine applications. Due to the strong cell-killing capability and limited tissue penetration range of alpha radiation, Thorium-227 is considered an important candidate radionuclide for Targeted Alpha Therapy (TAT).

The upstream segment of the Thorium-227 supply chain includes radioactive isotope sources, nuclear material production facilities, radiochemical preparation technologies, and nuclear-grade analytical equipment suppliers. Since Thorium-227 has extremely limited natural availability and a relatively short half-life, it cannot be obtained directly from conventional mineral resources and must be produced through radioactive decay chains or artificial nuclear reactions. The upstream sector involves parent radionuclide materials, actinide-related resources, nuclear reactors or accelerators, radiochemical separation systems, and high-precision radioactive analysis equipment. Isotope production also requires strict nuclear safety compliance, including radioactive material

licensing, radiation protection infrastructure, and specialized transportation systems. Global Thorium-227 production capabilities remain limited and are concentrated among advanced nuclear research institutions, isotope producers, and nuclear medicine development platforms. The midstream segment of the Thorium-227 industry mainly includes isotope producers, nuclear medicine research organizations, and radiopharmaceutical developers. This stage involves Thorium-227 production, purification, quality control, radiolabeling technology development, and conjugation with targeted carriers to create radiopharmaceutical candidates. Since Thorium-227 is typically combined with antibodies, peptides, or other targeting molecules, the midstream industry requires capabilities in radiopharmaceutical chemistry, conjugation technologies, and preclinical development. Currently, Thorium-227-based products remain largely in research and clinical development stages, with limited commercial supply. Several international pharmaceutical companies and nuclear medicine developers are advancing Thorium-227-based targeted alpha therapy programs, supporting the transition of this isotope from research material toward clinical applications. The downstream applications of Thorium-227 are mainly focused on cancer treatment, radiopharmaceutical development, and nuclear medicine. Targeted alpha therapy is considered one of the most promising application areas, particularly for hematological cancers, solid tumors, and difficult-to-treat cancers. Compared with conventional radiation therapy, alpha particles have high linear energy transfer (LET), allowing them to deliver strong cytotoxic effects within a short range and enabling highly precise treatment approaches. Thorium-227 is also used in nuclear medicine research, drug target validation, and clinical development programs. With increasing global demand for advanced cancer therapies, growth of precision medicine, and commercialization of radiopharmaceuticals, Thorium-227 is expected to become an important radionuclide in the future targeted alpha therapy market.

As the global number of cancer patients rises and precision medicine technologies advance, radiopharmaceutical therapy is emerging as a key direction in oncology. Targeted Alpha Therapy (TAT) has garnered significant attention from pharmaceutical companies and nuclear medicine research institutions due to the unique properties of alpha particles, including high linear energy transfer (LET), a short range of action, and potent tumor-killing capabilities. Thorium-227, an alpha-emitting therapeutic radionuclide, can be conjugated with targeting vectors such as antibodies, peptides, or small-molecule ligands to form Targeted Thorium Conjugates (TTCs), enabling the precise destruction of specific tumor cells. With the maturation of TAT technology and ongoing clinical research, Thorium-227 has demonstrated substantial potential in treating both hematological malignancies and solid tumors, positioning itself as a pivotal radionuclide driving the growth of the radiopharmaceutical industry.

Another major driver of Thorium-227 industry development is the establishment of a global radiopharmaceutical supply chain. As targeted radiopharmaceutical therapy transitions from the research stage to clinical development, a stable supply of high-quality therapeutic radionuclides has become critical to industry growth. Thorium-227 is typically derived from the Actinium-227 decay chain and isolated via radiochemical processes; the supply chain encompasses nuclear reactors, isotope separation technologies, radiopharmaceutical manufacturing platforms, and specialized transportation systems. Given the stringent requirements for purity, radioactivity, and supply stability associated with therapeutic-grade radionuclides, future industry competition will hinge not only on production capacity but also on the ability to ensure large-scale supply and maintain quality control systems that meet medical standards. As global investment in alpha-radionuclide therapy research increases, the development of production and supply capabilities for Thorium-227 will become a key strategic focus for the industry.

In recent years, major pharmaceutical and biotechnology companies have steadily increased their investment in radiopharmaceuticals and nuclear medicine, propelling Thorium-227 from a material used in basic research toward becoming a potential commercial therapeutic product. Compared to some traditional alpha-emitting radionuclides, Thorium-227 offers the advantage of being able to form chelated bonds with targeting molecules, facilitating the development of therapies tailored to various tumor targets. Research into Thorium-227 targeting markers such as HER2, PSMA, CD22, and Mesothelin is currently underway, laying the technical foundation for expanding its future applications. With the accumulation of clinical trial data, advancements in companion diagnostic technologies, and the widespread adoption of precision therapy models, Thorium-227 is poised to address a broader range of cancer treatment scenarios and drive further expansion of the radiopharmaceutical market.

This report is a detailed and comprehensive analysis for global Thorium-227 market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Thorium-227 market size and forecasts, in consumption value (\$ Million), sales quantity (Gram), and average selling prices (US\$/g), 2021-2032

Global Thorium-227 market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Gram), and average selling prices (US\$/g), 2021-2032

Global Thorium-227 market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Gram), and average selling prices (US\$/g), 2021-2032

Global Thorium-227 market shares of main players, shipments in revenue (\$ Million), sales quantity (Gram), and ASP (US\$/g), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Thorium-227

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Thorium-227 market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NIDC(DOE IP), Eckert & Ziegler, RITVERC JSC, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Thorium-227 market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

High-specific Activity

Low-specific Activity

Market segment by Nuclear State

Thorium-227 Ground State

Thorium-227 Decay Chain Products

Market segment by Purity Grade

Research Grade Thorium-227

High Purity Thorium-227

Pharmaceutical Grade Thorium-227

Market segment by Production Source

Actinium-227 Derived Thorium-227

Reactor/Accelerator Produced Thorium-227

Market segment by Application

Scientific Research

Cancer Treatment

Major players covered

NIDC(DOE IP)

Eckert & Ziegler

RITVERC JSC

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Thorium-227 product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Thorium-227, with price, sales quantity, revenue, and global market share of Thorium-227 from 2021 to 2026.

Chapter 3, the Thorium-227 competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Thorium-227 breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales

quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Thorium-227 market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Thorium-227.

Chapter 14 and 15, to describe Thorium-227 sales channel, distributors, customers, research findings and conclusion.

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