

Global Thorium-227 Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Thorium-227 market size is expected to reach \$ 231 million by 2032, rising at a market growth of 11.3% CAGR during the forecast period (2026-2032).

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 studies the global Thorium-227 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Thorium-227 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 Thorium-227 that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Thorium-227 total production and demand, 2021-2032, (Gram)
Global Thorium-227 total production value, 2021-2032, (USD Million)
Global Thorium-227 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Gram), (based on production site)
Global Thorium-227 consumption by region & country, CAGR, 2021-2032 & (Gram)
U.S. VS China: Thorium-227 domestic production, consumption, key domestic manufacturers and share
Global Thorium-227 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Gram)
Global Thorium-227 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Gram)
Global Thorium-227 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

This report profiles key players in the global Thorium-227 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), Eckert & Ziegler, RITVERC 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 Thorium-227 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 Thorium-227 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Thorium-227 Market, Segmentation by Type:

High-specific Activity

Low-specific Activity

Global Thorium-227 Market, Segmentation by Nuclear State:

Thorium-227 Ground State

Thorium-227 Decay Chain Products

Global Thorium-227 Market, Segmentation by Purity Grade:

Research Grade Thorium-227

High Purity Thorium-227

Pharmaceutical Grade Thorium-227

Global Thorium-227 Market, Segmentation by Production Source:

Actinium-227 Derived Thorium-227

Reactor/Accelerator Produced Thorium-227

Global Thorium-227 Market, Segmentation by Application:

Scientific Research

Cancer Treatment

Companies Profiled:

NIDC(DOE IP)

Eckert & Ziegler

RITVERC JSC

Key Questions Answered:

1. How big is the global Thorium-227 market?
2. What is the demand of the global Thorium-227 market?
3. What is the year over year growth of the global Thorium-227 market?
4. What is the production and production value of the global Thorium-227 market?
5. Who are the key producers in the global Thorium-227 market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Thorium-227 Introduction
- 1.2 World Thorium-227 Supply & Forecast
 - 1.2.1 World Thorium-227 Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Thorium-227 Production (2021-2032)
 - 1.2.3 World Thorium-227 Pricing Trends (2021-2032)
- 1.3 World Thorium-227 Production by Region (Based on Production Site)
 - 1.3.1 World Thorium-227 Production Value by Region (2021-2032)
 - 1.3.2 World Thorium-227 Production by Region (2021-2032)
 - 1.3.3 World Thorium-227 Average Price by Region (2021-2032)
 - 1.3.4 North America Thorium-227 Production (2021-2032)
 - 1.3.5 Europe Thorium-227 Production (2021-2032)
 - 1.3.6 China Thorium-227 Production (2021-2032)
 - 1.3.7 Japan Thorium-227 Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Thorium-227 Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Thorium-227 Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Thorium-227 Demand (2021-2032)
- 2.2 World Thorium-227 Consumption by Region
 - 2.2.1 World Thorium-227 Consumption by Region (2021-2026)
 - 2.2.2 World Thorium-227 Consumption Forecast by Region (2027-2032)
- 2.3 United States Thorium-227 Consumption (2021-2032)
- 2.4 China Thorium-227 Consumption (2021-2032)
- 2.5 Europe Thorium-227 Consumption (2021-2032)
- 2.6 Japan Thorium-227 Consumption (2021-2032)
- 2.7 South Korea Thorium-227 Consumption (2021-2032)
- 2.8 ASEAN Thorium-227 Consumption (2021-2032)
- 2.9 India Thorium-227 Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Thorium-227 Production Value by Manufacturer (2021-2026)

- 3.2 World Thorium-227 Production by Manufacturer (2021-2026)
- 3.3 World Thorium-227 Average Price by Manufacturer (2021-2026)
- 3.4 Thorium-227 Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Thorium-227 Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Thorium-227 in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Thorium-227 in 2025
- 3.6 Thorium-227 Market: Overall Company Footprint Analysis
 - 3.6.1 Thorium-227 Market: Region Footprint
 - 3.6.2 Thorium-227 Market: Company Product Type Footprint
 - 3.6.3 Thorium-227 Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Thorium-227 Production Value Comparison
 - 4.1.1 United States VS China: Thorium-227 Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Thorium-227 Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Thorium-227 Production Comparison
 - 4.2.1 United States VS China: Thorium-227 Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Thorium-227 Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Thorium-227 Consumption Comparison
 - 4.3.1 United States VS China: Thorium-227 Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Thorium-227 Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Thorium-227 Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Thorium-227 Manufacturers, Headquarters and Production Site (States, Country)
 - 4.4.2 United States Based Manufacturers Thorium-227 Production Value (2021-2026)

- 4.4.3 United States Based Manufacturers Thorium-227 Production (2021-2026)
- 4.5 China Based Thorium-227 Manufacturers and Market Share
 - 4.5.1 China Based Thorium-227 Manufacturers, Headquarters and Production Site (Province, Country)
 - 4.5.2 China Based Manufacturers Thorium-227 Production Value (2021-2026)
 - 4.5.3 China Based Manufacturers Thorium-227 Production (2021-2026)
- 4.6 Rest of World Based Thorium-227 Manufacturers and Market Share, 2021-2026
 - 4.6.1 Rest of World Based Thorium-227 Manufacturers, Headquarters and Production Site (State, Country)
 - 4.6.2 Rest of World Based Manufacturers Thorium-227 Production Value (2021-2026)
 - 4.6.3 Rest of World Based Manufacturers Thorium-227 Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

- 5.1 World Thorium-227 Market Size Overview by Type: 2021 VS 2025 VS 2032
- 5.2 Segment Introduction by Type
 - 5.2.1 High-specific Activity
 - 5.2.2 Low-specific Activity
- 5.3 Market Segment by Type
 - 5.3.1 World Thorium-227 Production by Type (2021-2032)
 - 5.3.2 World Thorium-227 Production Value by Type (2021-2032)
 - 5.3.3 World Thorium-227 Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY NUCLEAR STATE

- 6.1 World Thorium-227 Market Size Overview by Nuclear State: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Nuclear State
 - 6.2.1 Thorium-227 Ground State
 - 6.2.2 Thorium-227 Decay Chain Products
- 6.3 Market Segment by Nuclear State
 - 6.3.1 World Thorium-227 Production by Nuclear State (2021-2032)
 - 6.3.2 World Thorium-227 Production Value by Nuclear State (2021-2032)
 - 6.3.3 World Thorium-227 Average Price by Nuclear State (2021-2032)

7 MARKET ANALYSIS BY PURITY GRADE

- 7.1 World Thorium-227 Market Size Overview by Purity Grade: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Purity Grade
 - 7.2.1 Research Grade Thorium-227

7.2.2 High Purity Thorium-227

7.2.3 Pharmaceutical Grade Thorium-227

7.3 Market Segment by Purity Grade

7.3.1 World Thorium-227 Production by Purity Grade (2021-2032)

7.3.2 World Thorium-227 Production Value by Purity Grade (2021-2032)

7.3.3 World Thorium-227 Average Price by Purity Grade (2021-2032)

8 MARKET ANALYSIS BY PRODUCTION SOURCE

8.1 World Thorium-227 Market Size Overview by Production Source: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Production Source

8.2.1 Actinium-227 Derived Thorium-227

8.2.2 Reactor/Accelerator Produced Thorium-227

8.3 Market Segment by Production Source

8.3.1 World Thorium-227 Production by Production Source (2021-2032)

8.3.2 World Thorium-227 Production Value by Production Source (2021-2032)

8.3.3 World Thorium-227 Average Price by Production Source (2021-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World Thorium-227 Market Size Overview by Application: 2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

9.2.1 Scientific Research

9.2.2 Cancer Treatment

9.3 Market Segment by Application

9.3.1 World Thorium-227 Production by Application (2021-2032)

9.3.2 World Thorium-227 Production Value by Application (2021-2032)

9.3.3 World Thorium-227 Average Price by Application (2021-2032)

10 COMPANY PROFILES

10.1 NIDC(DOE IP)

10.1.1 NIDC(DOE IP) Details

10.1.2 NIDC(DOE IP) Major Business

10.1.3 NIDC(DOE IP) Thorium-227 Product and Services

10.1.4 NIDC(DOE IP) Thorium-227 Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.1.5 NIDC(DOE IP) Recent Developments/Updates

- 10.1.6 NIDC(DOE IP) Competitive Strengths & Weaknesses
- 10.2 Eckert & Ziegler
 - 10.2.1 Eckert & Ziegler Details
 - 10.2.2 Eckert & Ziegler Major Business
 - 10.2.3 Eckert & Ziegler Thorium-227 Product and Services
 - 10.2.4 Eckert & Ziegler Thorium-227 Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.2.5 Eckert & Ziegler Recent Developments/Updates
 - 10.2.6 Eckert & Ziegler Competitive Strengths & Weaknesses
- 10.3 RITVERC JSC
 - 10.3.1 RITVERC JSC Details
 - 10.3.2 RITVERC JSC Major Business
 - 10.3.3 RITVERC JSC Thorium-227 Product and Services
 - 10.3.4 RITVERC JSC Thorium-227 Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.3.5 RITVERC JSC Recent Developments/Updates
 - 10.3.6 RITVERC JSC Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

- 11.1 Thorium-227 Industry Chain
- 11.2 Thorium-227 Upstream Analysis
 - 11.2.1 Thorium-227 Core Raw Materials
 - 11.2.2 Main Manufacturers of Thorium-227 Core Raw Materials
- 11.3 Midstream Analysis
- 11.4 Downstream Analysis
- 11.5 Thorium-227 Production Mode
- 11.6 Thorium-227 Procurement Model
- 11.7 Thorium-227 Industry Sales Model and Sales Channels
 - 11.7.1 Thorium-227 Sales Model
 - 11.7.2 Thorium-227 Typical Distributors

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

- 13.1 Methodology
- 13.2 Research Process and Data Source
- 13.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Thorium-227 Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Thorium-227 Production Value by Region (2021-2026) & (USD Million)

Table 3. World Thorium-227 Production Value by Region (2027-2032) & (USD Million)

Table 4. World Thorium-227 Production Value Market Share by Region (2021-2026)

Table 5. World Thorium-227 Production Value Market Share by Region (2027-2032)

Table 6. World Thorium-227 Production by Region (2021-2026) & (Gram)

Table 7. World Thorium-227 Production by Region (2027-2032) & (Gram)

Table 8. World Thorium-227 Production Market Share by Region (2021-2026)

Table 9. World Thorium-227 Production Market Share by Region (2027-2032)

Table 10. World Thorium-227 Average Price by Region (2021-2026) & (US\$/g)

Table 11. World Thorium-227 Average Price by Region (2027-2032) & (US\$/g)

Table 12. Thorium-227 Major Market Trends

Table 13. World Thorium-227 Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Gram)

Table 14. World Thorium-227 Consumption by Region (2021-2026) & (Gram)

Table 15. World Thorium-227 Consumption Forecast by Region (2027-2032) & (Gram)

Table 16. World Thorium-227 Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Thorium-227 Producers in 2025

Table 18. World Thorium-227 Production by Manufacturer (2021-2026) & (Gram)

Table 19. Production Market Share of Key Thorium-227 Producers in 2025

Table 20. World Thorium-227 Average Price by Manufacturer (2021-2026) & (US\$/g)

Table 21. Global Thorium-227 Company Evaluation Quadrant

Table 22. World Thorium-227 Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Thorium-227 Production Site of Key Manufacturer

Table 24. Thorium-227 Market: Company Product Type Footprint

Table 25. Thorium-227 Market: Company Product Application Footprint

Table 26. Thorium-227 Competitive Factors

Table 27. Thorium-227 New Entrant and Capacity Expansion Plans

Table 28. Thorium-227 Mergers & Acquisitions Activity

Table 29. United States VS China Thorium-227 Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Thorium-227 Production Comparison, (2021 & 2025

& 2032) & (Gram)

Table 31. United States VS China Thorium-227 Consumption Comparison, (2021 & 2025 & 2032) & (Gram)

Table 32. United States Based Thorium-227 Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Thorium-227 Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Thorium-227 Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Thorium-227 Production (2021-2026) & (Gram)

Table 36. United States Based Manufacturers Thorium-227 Production Market Share (2021-2026)

Table 37. China Based Thorium-227 Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Thorium-227 Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Thorium-227 Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Thorium-227 Production, (2021-2026) & (Gram)

Table 41. China Based Manufacturers Thorium-227 Production Market Share (2021-2026)

Table 42. Rest of World Based Thorium-227 Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Thorium-227 Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Thorium-227 Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Thorium-227 Production, (2021-2026) & (Gram)

Table 46. Rest of World Based Manufacturers Thorium-227 Production Market Share (2021-2026)

Table 47. World Thorium-227 Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Thorium-227 Production by Type (2021-2026) & (Gram)

Table 49. World Thorium-227 Production by Type (2027-2032) & (Gram)

Table 50. World Thorium-227 Production Value by Type (2021-2026) & (USD Million)

Table 51. World Thorium-227 Production Value by Type (2027-2032) & (USD Million)

Table 52. World Thorium-227 Average Price by Type (2021-2026) & (US\$/g)

Table 53. World Thorium-227 Average Price by Type (2027-2032) & (US\$/g)
Table 54. World Thorium-227 Production Value by Nuclear State, (USD Million), 2021 & 2025 & 2032
Table 55. World Thorium-227 Production by Nuclear State (2021-2026) & (Gram)
Table 56. World Thorium-227 Production by Nuclear State (2027-2032) & (Gram)
Table 57. World Thorium-227 Production Value by Nuclear State (2021-2026) & (USD Million)
Table 58. World Thorium-227 Production Value by Nuclear State (2027-2032) & (USD Million)
Table 59. World Thorium-227 Average Price by Nuclear State (2021-2026) & (US\$/g)
Table 60. World Thorium-227 Average Price by Nuclear State (2027-2032) & (US\$/g)
Table 61. World Thorium-227 Production Value by Purity Grade, (USD Million), 2021 & 2025 & 2032
Table 62. World Thorium-227 Production by Purity Grade (2021-2026) & (Gram)
Table 63. World Thorium-227 Production by Purity Grade (2027-2032) & (Gram)
Table 64. World Thorium-227 Production Value by Purity Grade (2021-2026) & (USD Million)
Table 65. World Thorium-227 Production Value by Purity Grade (2027-2032) & (USD Million)
Table 66. World Thorium-227 Average Price by Purity Grade (2021-2026) & (US\$/g)
Table 67. World Thorium-227 Average Price by Purity Grade (2027-2032) & (US\$/g)
Table 68. World Thorium-227 Production Value by Production Source, (USD Million), 2021 & 2025 & 2032
Table 69. World Thorium-227 Production by Production Source (2021-2026) & (Gram)
Table 70. World Thorium-227 Production by Production Source (2027-2032) & (Gram)
Table 71. World Thorium-227 Production Value by Production Source (2021-2026) & (USD Million)
Table 72. World Thorium-227 Production Value by Production Source (2027-2032) & (USD Million)
Table 73. World Thorium-227 Average Price by Production Source (2021-2026) & (US\$/g)
Table 74. World Thorium-227 Average Price by Production Source (2027-2032) & (US\$/g)
Table 75. World Thorium-227 Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 76. World Thorium-227 Production by Application (2021-2026) & (Gram)
Table 77. World Thorium-227 Production by Application (2027-2032) & (Gram)
Table 78. World Thorium-227 Production Value by Application (2021-2026) & (USD Million)

Table 79. World Thorium-227 Production Value by Application (2027-2032) & (USD Million)

Table 80. World Thorium-227 Average Price by Application (2021-2026) & (US\$/g)

Table 81. World Thorium-227 Average Price by Application (2027-2032) & (US\$/g)

Table 82. NIDC(DOE IP) Basic Information, Manufacturing Base and Competitors

Table 83. NIDC(DOE IP) Major Business

Table 84. NIDC(DOE IP) Thorium-227 Product and Services

Table 85. NIDC(DOE IP) Thorium-227 Production (Gram), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 86. NIDC(DOE IP) Recent Developments/Updates

Table 87. NIDC(DOE IP) Competitive Strengths & Weaknesses

Table 88. Eckert & Ziegler Basic Information, Manufacturing Base and Competitors

Table 89. Eckert & Ziegler Major Business

Table 90. Eckert & Ziegler Thorium-227 Product and Services

Table 91. Eckert & Ziegler Thorium-227 Production (Gram), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 92. Eckert & Ziegler Recent Developments/Updates

Table 93. Eckert & Ziegler Competitive Strengths & Weaknesses

Table 94. RITVERC JSC Basic Information, Manufacturing Base and Competitors

Table 95. RITVERC JSC Major Business

Table 96. RITVERC JSC Thorium-227 Product and Services

Table 97. RITVERC JSC Thorium-227 Production (Gram), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 98. RITVERC JSC Recent Developments/Updates

Table 99. RITVERC JSC Competitive Strengths & Weaknesses

Table 100. Global Key Players of Thorium-227 Upstream (Raw Materials)

Table 101. Global Thorium-227 Typical Customers

Table 102. Thorium-227 Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Thorium-227 Picture

Figure 2. World Thorium-227 Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Thorium-227 Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Thorium-227 Production (2021-2032) & (Gram)

Figure 5. World Thorium-227 Average Price (2021-2032) & (US\$/g)

Figure 6. World Thorium-227 Production Value Market Share by Region (2021-2032)

Figure 7. World Thorium-227 Production Market Share by Region (2021-2032)

Figure 8. North America Thorium-227 Production (2021-2032) & (Gram)

Figure 9. Europe Thorium-227 Production (2021-2032) & (Gram)

Figure 10. China Thorium-227 Production (2021-2032) & (Gram)

Figure 11. Japan Thorium-227 Production (2021-2032) & (Gram)

Figure 12. Thorium-227 Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Thorium-227 Consumption (2021-2032) & (Gram)

Figure 15. World Thorium-227 Consumption Market Share by Region (2021-2032)

Figure 16. United States Thorium-227 Consumption (2021-2032) & (Gram)

Figure 17. China Thorium-227 Consumption (2021-2032) & (Gram)

Figure 18. Europe Thorium-227 Consumption (2021-2032) & (Gram)

Figure 19. Japan Thorium-227 Consumption (2021-2032) & (Gram)

Figure 20. South Korea Thorium-227 Consumption (2021-2032) & (Gram)

Figure 21. ASEAN Thorium-227 Consumption (2021-2032) & (Gram)

Figure 22. India Thorium-227 Consumption (2021-2032) & (Gram)

Figure 23. Producer Shipments of Thorium-227 by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Thorium-227 Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Thorium-227 Markets in 2025

Figure 26. United States VS China: Thorium-227 Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Thorium-227 Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Thorium-227 Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Thorium-227 Production Market Share 2025

Figure 30. China Based Manufacturers Thorium-227 Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Thorium-227 Production Market Share 2025

Figure 32. World Thorium-227 Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Thorium-227 Production Value Market Share by Type in 2025

Figure 34. High-specific Activity

Figure 35. Low-specific Activity

Figure 36. World Thorium-227 Production Market Share by Type (2021-2032)

Figure 37. World Thorium-227 Production Value Market Share by Type (2021-2032)

Figure 38. World Thorium-227 Average Price by Type (2021-2032) & (US\$/g)

Figure 39. World Thorium-227 Production Value by Nuclear State, (USD Million), 2021 & 2025 & 2032

Figure 40. World Thorium-227 Production Value Market Share by Nuclear State in 2025

Figure 41. Thorium-227 Ground State

Figure 42. Thorium-227 Decay Chain Products

Figure 43. World Thorium-227 Production Market Share by Nuclear State (2021-2032)

Figure 44. World Thorium-227 Production Value Market Share by Nuclear State (2021-2032)

Figure 45. World Thorium-227 Average Price by Nuclear State (2021-2032) & (US\$/g)

Figure 46. World Thorium-227 Production Value by Purity Grade, (USD Million), 2021 & 2025 & 2032

Figure 47. World Thorium-227 Production Value Market Share by Purity Grade in 2025

Figure 48. Research Grade Thorium-227

Figure 49. High Purity Thorium-227

Figure 50. Pharmaceutical Grade Thorium-227

Figure 51. World Thorium-227 Production Market Share by Purity Grade (2021-2032)

Figure 52. World Thorium-227 Production Value Market Share by Purity Grade (2021-2032)

Figure 53. World Thorium-227 Average Price by Purity Grade (2021-2032) & (US\$/g)

Figure 54. World Thorium-227 Production Value by Production Source, (USD Million), 2021 & 2025 & 2032

Figure 55. World Thorium-227 Production Value Market Share by Production Source in 2025

Figure 56. Actinium-227 Derived Thorium-227

Figure 57. Reactor/Accelerator Produced Thorium-227

Figure 58. World Thorium-227 Production Market Share by Production Source

(2021-2032)

Figure 59. World Thorium-227 Production Value Market Share by Production Source (2021-2032)

Figure 60. World Thorium-227 Average Price by Production Source (2021-2032) & (US\$/g)

Figure 61. World Thorium-227 Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 62. World Thorium-227 Production Value Market Share by Application in 2025

Figure 63. Scientific Research

Figure 64. Cancer Treatment

Figure 65. World Thorium-227 Production Market Share by Application (2021-2032)

Figure 66. World Thorium-227 Production Value Market Share by Application (2021-2032)

Figure 67. World Thorium-227 Average Price by Application (2021-2032) & (US\$/g)

Figure 68. Thorium-227 Industry Chain

Figure 69. Thorium-227 Procurement Model

Figure 70. Thorium-227 Sales Model

Figure 71. Thorium-227 Sales Channels, Direct Sales, and Distribution

Figure 72. Methodology

Figure 73. Research Process and Data Source

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