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Global Einsteinium-255 Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Einsteinium-255 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 Einsteinium-255 was approximately 32 mCi, with an average global market price of around $64,000 per mCi. That year, total global production capacity reached approximately 60 mCi, and the industry's average gross profit margin stood at about 25%. Einsteinium-255 (Es-255) is an artificial radioactive isotope of the element einsteinium; it has an atomic number of 99 and a mass number of 255, with a nucleus composed of 99 protons and 156 neutrons, classifying it as a transuranic actinide nuclide. Es-255 does not occur in nature and can only be produced artificially through high-flux neutron irradiation or heavy-ion nuclear reactions. It has a half-life of approximately 39.8 days; about 92% of its decay occurs via ?? emission to form fermium-255 (Fm-255), about 8% via ? decay to form berkelium-251 (Bk-251), and approximately 0.0041% via spontaneous fission. Due to its extremely low yield, high radioactivity, and difficult production process, Es-255 is not a standard commercial isotope; it is primarily used in research fields such as nuclear physics, actinide chemistry, and superheavy element studies.

Upstream processes primarily involve target materials (such as isotopes of curium, berkelium, and californium), high-flux isotope reactors, target encapsulation materials, and remote irradiation facilities. Es-255 can be generated through reaction chains involving successive neutron capture by heavy actinide nuclides—for instance, californium-254 (Cf-254) capturing a neutron to form Cf-254, which subsequently undergoes ?? decay to yield Es-255, or through the direct neutron capture of einsteinium-254 (Es-254). As precursor isotopes like Cf-254 and Es-254 are extremely scarce, production typically relies on a limited number of national laboratories equipped

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with high-flux reactors and capabilities for handling transuranic elements. Midstream processes encompass high-intensity neutron irradiation, target cooling, hot-cell disassembly, target dissolution, transuranic element separation, nuclide identification, activity measurement, and micro-scale dispensing. Irradiated targets typically contain a mixture of adjacent actinide elements—such as berkelium, californium, einsteinium, and fermium—requiring separation and verification techniques such as ion-exchange chromatography, extraction chromatography, and high-resolution alpha and gamma spectroscopy. Chemical methods can only separate different elements; they cannot directly separate different isotopes of the same element—such as einsteinium-253, -254, and -255. Consequently, the final isotopic purity depends heavily on target composition, irradiation duration, cooling time, and the specific nuclear reaction pathway. Einsteinium-255 is typically supplied through custom research projects, national laboratory allocations, or in minute quantities; it is not available as standard inventory or for commercial mass supply. Downstream applications primarily serve national laboratories, nuclear physics research institutes, heavy-element chemistry laboratories, and particle accelerator centers. Einsteinium-255 is used to study the beta decay, alpha decay, spontaneous fission, nuclear energy-level structure, hyperfine structure, and neutron capture reactions of heavy actinide nuclides; it also serves as a target nuclide for the synthesis of even heavier nuclides, such as einsteinium-256, fermium, or mendelevium. For instance, einsteinium-255 has been used as a target for alpha-particle bombardment to investigate mendelevium-258 via the $^{2}??Es(?,n)^{2}??Md$ reaction.

The primary driving force behind the development of the Es-255 sector stems from research into heavy actinide nuclear physics and superheavy elements. Es-255 can decay via ?? emission into Fm-255 and serves as a target nuclide for further experiments involving neutron capture or heavy-ion bombardment; consequently, it is well-suited for studying nuclear level structures, shell effects, nuclear deformation, isotope shifts, and spontaneous fission mechanisms in the heavy-nucleus region.

Advancements in high-flux reactors, hot cells, and ultramicro-analytical techniques are enhancing the feasibility of Es-255 research. While heavy-element experiments previously required samples in the nanogram range or larger, the development of laser resonance ionization spectroscopy, high-sensitivity alpha spectroscopy, ion-trap mass spectrometry, and low-background detectors now enables researchers to conduct nuclear structure measurements using samples at the picogram or even femtogram scale. Simultaneously, technologies such as automated target transfer, remote manipulators, extraction chromatography, and microfluidic separation help minimize handling losses and personnel radiation exposure, thereby improving the utilization

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efficiency of the limited Es-255 output.

In terms of industry trends, Es-255 will continue to be characterized by extremely low production volumes, highly concentrated supply, sporadic orders, and dominance by public research projects, without evolving into a conventional industrial market. Competition in the sector focuses not on mass-scale production expansion, but rather on capabilities regarding precursor acquisition, high-flux irradiation resources, ultramicro-scale separation yields, nuclide purity, and cross-border delivery for research purposes. Es-255 will continue to be quantified and priced in terms of mCi, ?Ci, or atom count, with actual prices primarily reflecting costs associated with reactor occupancy, scarce target materials, hot-cell processing, and quality verification. While the total market value may rise alongside increased research investment and the value of individual projects, annual production volumes will remain significantly influenced by factors such as reactor maintenance schedules, Californium production cycles, and the supply of Es-254 precursors.

Report Scope

This report studies the global Einsteinium-255 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Einsteinium-255 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 Einsteinium-255 that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Einsteinium-255 total production and demand, 2021-2032, (mCi)

Global Einsteinium-255 total production value, 2021-2032, (USD Million)

Global Einsteinium-255 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (mCi), (based on production site)

Global Einsteinium-255 consumption by region & country, CAGR, 2021-2032 &

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(mCi)

U.S. VS China: Einsteinium-255 domestic production, consumption, key domestic manufacturers and share

Global Einsteinium-255 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (mCi)

Global Einsteinium-255 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (mCi)

Global Einsteinium-255 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (mCi)

This report profiles key players in the global Einsteinium-255 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 ORNL, LANL, LBNL, Joint Institute for Nuclear Research, CERN, JAEA, American Elements, 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 Einsteinium-255 market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (mCi) and average price (US$/mCi) 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 Einsteinium-255 Market, By Region:

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United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Einsteinium-255 Market, Segmentation by Type:

Reactor Irradiation Production

Accelerator Synthesis

Global Einsteinium-255 Market, Segmentation by Supply Form:

In-target (Unseparated)

Radiochemically Separated

Purified Research-grade Sample

Einsteinium-255/Fermium-255 Generator

Global Einsteinium-255 Market, Segmentation by Nuclide

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Composition:

Mixed Einsteinium Isotopes

Enriched Einsteinium-255

Einsteinium-255/Fermium-255 Equilibrium Mixture

Global Einsteinium-255 Market, Segmentation by Chemical and Physical Form:

Acidic Solution

Dry Deposit

Electrodeposited Target

Irradiated Target Matrix

Global Einsteinium-255 Market, Segmentation by Application:

Superheavy Element Synthesis

Scientific Research

Companies Profiled:

ORNL

LANL

LBNL

Joint Institute for Nuclear Research

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CERN

JAEA

American Elements

ISOFLEX USA

Key Questions Answered

1. How big is the global Einsteinium-255 market?
2. What is the demand of the global Einsteinium-255 market?
3. What is the year over year growth of the global Einsteinium-255 market?
4. What is the total value of the global Einsteinium-255 market?
5. Who are the Major Players in the global Einsteinium-255 market?
6. What are the growth factors driving the market demand?

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Contents

1 SUPPLY SUMMARY

1.1 Einsteinium-255 Introduction
1.2 World Einsteinium-255 Supply & Forecast
  1.2.1 World Einsteinium-255 Production Value (2021 & 2025 & 2032)
  1.2.2 World Einsteinium-255 Production (2021-2032)
  1.2.3 World Einsteinium-255 Pricing Trends (2021-2032)
1.3 World Einsteinium-255 Production by Region (Based on Production Site)
  1.3.1 World Einsteinium-255 Production Value by Region (2021-2032)
  1.3.2 World Einsteinium-255 Production by Region (2021-2032)
  1.3.3 World Einsteinium-255 Average Price by Region (2021-2032)
  1.3.4 North America Einsteinium-255 Production (2021-2032)
  1.3.5 Europe Einsteinium-255 Production (2021-2032)
  1.3.6 China Einsteinium-255 Production (2021-2032)
  1.3.7 Japan Einsteinium-255 Production (2021-2032)
1.4 Market Drivers, Restraints and Trends
  1.4.1 Einsteinium-255 Market Drivers
  1.4.2 Factors Affecting Demand
  1.4.3 Einsteinium-255 Major Market Trends

2 DEMAND SUMMARY

2.1 World Einsteinium-255 Demand (2021-2032)
2.2 World Einsteinium-255 Consumption by Region
  2.2.1 World Einsteinium-255 Consumption by Region (2021-2026)
  2.2.2 World Einsteinium-255 Consumption Forecast by Region (2027-2032)
2.3 United States Einsteinium-255 Consumption (2021-2032)
2.4 China Einsteinium-255 Consumption (2021-2032)
2.5 Europe Einsteinium-255 Consumption (2021-2032)
2.6 Japan Einsteinium-255 Consumption (2021-2032)
2.7 South Korea Einsteinium-255 Consumption (2021-2032)
2.8 ASEAN Einsteinium-255 Consumption (2021-2032)
2.9 India Einsteinium-255 Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Einsteinium-255 Production Value by Manufacturer (2021-2026)

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3.2 World Einsteinium-255 Production by Manufacturer (2021-2026)
3.3 World Einsteinium-255 Average Price by Manufacturer (2021-2026)
3.4 Einsteinium-255 Company Evaluation Quadrant
3.5 Industry Rank and Concentration Rate (CR)
  3.5.1 Global Einsteinium-255 Industry Rank of Major Manufacturers
  3.5.2 Global Concentration Ratios (CR4) for Einsteinium-255 in 2025
  3.5.3 Global Concentration Ratios (CR8) for Einsteinium-255 in 2025
3.6 Einsteinium-255 Market: Overall Company Footprint Analysis
  3.6.1 Einsteinium-255 Market: Region Footprint
  3.6.2 Einsteinium-255 Market: Company Product Type Footprint
  3.6.3 Einsteinium-255 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: Einsteinium-255 Production Value Comparison
  4.1.1 United States VS China: Einsteinium-255 Production Value Comparison (2021 & 2025 & 2032)
  4.1.2 United States VS China: Einsteinium-255 Production Value Market Share Comparison (2021 & 2025 & 2032)
4.2 United States VS China: Einsteinium-255 Production Comparison
  4.2.1 United States VS China: Einsteinium-255 Production Comparison (2021 & 2025 & 2032)
  4.2.2 United States VS China: Einsteinium-255 Production Market Share Comparison (2021 & 2025 & 2032)
4.3 United States VS China: Einsteinium-255 Consumption Comparison
  4.3.1 United States VS China: Einsteinium-255 Consumption Comparison (2021 & 2025 & 2032)
  4.3.2 United States VS China: Einsteinium-255 Consumption Market Share Comparison (2021 & 2025 & 2032)
4.4 United States Based Einsteinium-255 Manufacturers and Market Share, 2021-2026
  4.4.1 United States Based Einsteinium-255 Manufacturers, Headquarters and Production Site (States, Country)
  4.4.2 United States Based Manufacturers Einsteinium-255 Production Value

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(2021-2026)
4.4.3 United States Based Manufacturers Einsteinium-255 Production (2021-2026)
4.5 China Based Einsteinium-255 Manufacturers and Market Share
4.5.1 China Based Einsteinium-255 Manufacturers, Headquarters and Production Site (Province, Country)
4.5.2 China Based Manufacturers Einsteinium-255 Production Value (2021-2026)
4.5.3 China Based Manufacturers Einsteinium-255 Production (2021-2026)
4.6 Rest of World Based Einsteinium-255 Manufacturers and Market Share, 2021-2026
4.6.1 Rest of World Based Einsteinium-255 Manufacturers, Headquarters and Production Site (State, Country)
4.6.2 Rest of World Based Manufacturers Einsteinium-255 Production Value (2021-2026)
4.6.3 Rest of World Based Manufacturers Einsteinium-255 Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Einsteinium-255 Market Size Overview by Type: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Type
5.2.1 Reactor Irradiation Production
5.2.2 Accelerator Synthesis
5.3 Market Segment by Type
5.3.1 World Einsteinium-255 Production by Type (2021-2032)
5.3.2 World Einsteinium-255 Production Value by Type (2021-2032)
5.3.3 World Einsteinium-255 Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY SUPPLY FORM

6.1 World Einsteinium-255 Market Size Overview by Supply Form: 2021 VS 2025 VS 2032
6.2 Segment Introduction by Supply Form
6.2.1 In-target (Unseparated)
6.2.2 Radiochemically Separated
6.2.3 Purified Research-grade Sample
6.2.4 Einsteinium-255/Fermium-255 Generator
6.3 Market Segment by Supply Form
6.3.1 World Einsteinium-255 Production by Supply Form (2021-2032)
6.3.2 World Einsteinium-255 Production Value by Supply Form (2021-2032)
6.3.3 World Einsteinium-255 Average Price by Supply Form (2021-2032)

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info@marketpublishers.com

7 MARKET ANALYSIS BY NUCLIDE COMPOSITION

7.1 World Einsteinium-255 Market Size Overview by Nuclide Composition: 2021 VS 2025 VS 2032
7.2 Segment Introduction by Nuclide Composition
  7.2.1 Mixed Einsteinium Isotopes
  7.2.2 Enriched Einsteinium-255
  7.2.3 Einsteinium-255/Fermium-255 Equilibrium Mixture
7.3 Market Segment by Nuclide Composition
  7.3.1 World Einsteinium-255 Production by Nuclide Composition (2021-2032)
  7.3.2 World Einsteinium-255 Production Value by Nuclide Composition (2021-2032)
  7.3.3 World Einsteinium-255 Average Price by Nuclide Composition (2021-2032)

8 MARKET ANALYSIS BY CHEMICAL AND PHYSICAL FORM

8.1 World Einsteinium-255 Market Size Overview by Chemical and Physical Form: 2021 VS 2025 VS 2032
8.2 Segment Introduction by Chemical and Physical Form
  8.2.1 Acidic Solution
  8.2.2 Dry Deposit
  8.2.3 Electrodeposited Target
  8.2.4 Irradiated Target Matrix
8.3 Market Segment by Chemical and Physical Form
  8.3.1 World Einsteinium-255 Production by Chemical and Physical Form (2021-2032)
  8.3.2 World Einsteinium-255 Production Value by Chemical and Physical Form (2021-2032)
  8.3.3 World Einsteinium-255 Average Price by Chemical and Physical Form (2021-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World Einsteinium-255 Market Size Overview by Application: 2021 VS 2025 VS 2032
9.2 Segment Introduction by Application
  9.2.1 Superheavy Element Synthesis
  9.2.2 Scientific Research
9.3 Market Segment by Application
  9.3.1 World Einsteinium-255 Production by Application (2021-2032)
  9.3.2 World Einsteinium-255 Production Value by Application (2021-2032)

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9.3.3 World Einsteinium-255 Average Price by Application (2021-2032)

10 COMPANY PROFILES

10.1 ORNL
10.1.1 ORNL Details
10.1.2 ORNL Major Business
10.1.3 ORNL Einsteinium-255 Product and Services
10.1.4 ORNL Einsteinium-255 Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.1.5 ORNL Recent Developments/Updates
10.1.6 ORNL Competitive Strengths & Weaknesses
10.2 LANL
10.2.1 LANL Details
10.2.2 LANL Major Business
10.2.3 LANL Einsteinium-255 Product and Services
10.2.4 LANL Einsteinium-255 Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.2.5 LANL Recent Developments/Updates
10.2.6 LANL Competitive Strengths & Weaknesses
10.3 LBNL
10.3.1 LBNL Details
10.3.2 LBNL Major Business
10.3.3 LBNL Einsteinium-255 Product and Services
10.3.4 LBNL Einsteinium-255 Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.3.5 LBNL Recent Developments/Updates
10.3.6 LBNL Competitive Strengths & Weaknesses
10.4 Joint Institute for Nuclear Research
10.4.1 Joint Institute for Nuclear Research Details
10.4.2 Joint Institute for Nuclear Research Major Business
10.4.3 Joint Institute for Nuclear Research Einsteinium-255 Product and Services
10.4.4 Joint Institute for Nuclear Research Einsteinium-255 Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.4.5 Joint Institute for Nuclear Research Recent Developments/Updates
10.4.6 Joint Institute for Nuclear Research Competitive Strengths & Weaknesses
10.5 CERN
10.5.1 CERN Details
10.5.2 CERN Major Business

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info@marketpublishers.com

10.5.3 CERN Einsteinium-255 Product and Services
10.5.4 CERN Einsteinium-255 Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.5.5 CERN Recent Developments/Updates
10.5.6 CERN Competitive Strengths & Weaknesses
10.6 JAEA
10.6.1 JAEA Details
10.6.2 JAEA Major Business
10.6.3 JAEA Einsteinium-255 Product and Services
10.6.4 JAEA Einsteinium-255 Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.6.5 JAEA Recent Developments/Updates
10.6.6 JAEA Competitive Strengths & Weaknesses
10.7 American Elements
10.7.1 American Elements Details
10.7.2 American Elements Major Business
10.7.3 American Elements Einsteinium-255 Product and Services
10.7.4 American Elements Einsteinium-255 Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.7.5 American Elements Recent Developments/Updates
10.7.6 American Elements Competitive Strengths & Weaknesses
10.8 ISOFLEX USA
10.8.1 ISOFLEX USA Details
10.8.2 ISOFLEX USA Major Business
10.8.3 ISOFLEX USA Einsteinium-255 Product and Services
10.8.4 ISOFLEX USA Einsteinium-255 Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.8.5 ISOFLEX USA Recent Developments/Updates
10.8.6 ISOFLEX USA Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

11.1 Einsteinium-255 Industry Chain
11.2 Einsteinium-255 Upstream Analysis
11.2.1 Einsteinium-255 Core Raw Materials
11.2.2 Main Manufacturers of Einsteinium-255 Core Raw Materials
11.3 Midstream Analysis
11.4 Downstream Analysis
11.5 Einsteinium-255 Production Mode

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info@marketpublishers.com

11.6 Einsteinium-255 Procurement Model
11.7 Einsteinium-255 Industry Sales Model and Sales Channels
11.7.1 Einsteinium-255 Sales Model
11.7.2 Einsteinium-255 Typical Distributors

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

13.1 Methodology
13.2 Research Process and Data Source
13.3 Disclaimer

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. World Einsteinium-255 Production Value by Region (2021, 2025 and 2032) & (USD Million)
Table 2. World Einsteinium-255 Production Value by Region (2021-2026) & (USD Million)
Table 3. World Einsteinium-255 Production Value by Region (2027-2032) & (USD Million)
Table 4. World Einsteinium-255 Production Value Market Share by Region (2021-2026)
Table 5. World Einsteinium-255 Production Value Market Share by Region (2027-2032)
Table 6. World Einsteinium-255 Production by Region (2021-2026) & (mCi)
Table 7. World Einsteinium-255 Production by Region (2027-2032) & (mCi)
Table 8. World Einsteinium-255 Production Market Share by Region (2021-2026)
Table 9. World Einsteinium-255 Production Market Share by Region (2027-2032)
Table 10. World Einsteinium-255 Average Price by Region (2021-2026) & (US$/mCi)
Table 11. World Einsteinium-255 Average Price by Region (2027-2032) & (US$/mCi)
Table 12. Einsteinium-255 Major Market Trends
Table 13. World Einsteinium-255 Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (mCi)
Table 14. World Einsteinium-255 Consumption by Region (2021-2026) & (mCi)
Table 15. World Einsteinium-255 Consumption Forecast by Region (2027-2032) & (mCi)
Table 16. World Einsteinium-255 Production Value by Manufacturer (2021-2026) & (USD Million)
Table 17. Production Value Market Share of Key Einsteinium-255 Producers in 2025
Table 18. World Einsteinium-255 Production by Manufacturer (2021-2026) & (mCi)
Table 19. Production Market Share of Key Einsteinium-255 Producers in 2025
Table 20. World Einsteinium-255 Average Price by Manufacturer (2021-2026) & (US$/mCi)
Table 21. Global Einsteinium-255 Company Evaluation Quadrant
Table 22. World Einsteinium-255 Industry Rank of Major Manufacturers, Based on Production Value in 2025
Table 23. Head Office and Einsteinium-255 Production Site of Key Manufacturer
Table 24. Einsteinium-255 Market: Company Product Type Footprint
Table 25. Einsteinium-255 Market: Company Product Application Footprint
Table 26. Einsteinium-255 Competitive Factors
Table 27. Einsteinium-255 New Entrant and Capacity Expansion Plans

+357 96 030922
info@marketpublishers.com

Table 28. Einsteinium-255 Mergers & Acquisitions Activity
Table 29. United States VS China Einsteinium-255 Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Einsteinium-255 Production Comparison, (2021 & 2025 & 2032) & (mCi)
Table 31. United States VS China Einsteinium-255 Consumption Comparison, (2021 & 2025 & 2032) & (mCi)
Table 32. United States Based Einsteinium-255 Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Einsteinium-255 Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Einsteinium-255 Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Einsteinium-255 Production (2021-2026) & (mCi)
Table 36. United States Based Manufacturers Einsteinium-255 Production Market Share (2021-2026)
Table 37. China Based Einsteinium-255 Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Einsteinium-255 Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Einsteinium-255 Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Einsteinium-255 Production, (2021-2026) & (mCi)
Table 41. China Based Manufacturers Einsteinium-255 Production Market Share (2021-2026)
Table 42. Rest of World Based Einsteinium-255 Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Einsteinium-255 Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Einsteinium-255 Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers Einsteinium-255 Production, (2021-2026) & (mCi)
Table 46. Rest of World Based Manufacturers Einsteinium-255 Production Market Share (2021-2026)
Table 47. World Einsteinium-255 Production Value by Type, (USD Million), 2021 & 2025 & 2032

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info@marketpublishers.com

Table 48. World Einsteinium-255 Production by Type (2021-2026) & (mCi)
Table 49. World Einsteinium-255 Production by Type (2027-2032) & (mCi)
Table 50. World Einsteinium-255 Production Value by Type (2021-2026) & (USD Million)
Table 51. World Einsteinium-255 Production Value by Type (2027-2032) & (USD Million)
Table 52. World Einsteinium-255 Average Price by Type (2021-2026) & (US$/mCi)
Table 53. World Einsteinium-255 Average Price by Type (2027-2032) & (US$/mCi)
Table 54. World Einsteinium-255 Production Value by Supply Form, (USD Million), 2021 & 2025 & 2032
Table 55. World Einsteinium-255 Production by Supply Form (2021-2026) & (mCi)
Table 56. World Einsteinium-255 Production by Supply Form (2027-2032) & (mCi)
Table 57. World Einsteinium-255 Production Value by Supply Form (2021-2026) & (USD Million)
Table 58. World Einsteinium-255 Production Value by Supply Form (2027-2032) & (USD Million)
Table 59. World Einsteinium-255 Average Price by Supply Form (2021-2026) & (US$/mCi)
Table 60. World Einsteinium-255 Average Price by Supply Form (2027-2032) & (US$/mCi)
Table 61. World Einsteinium-255 Production Value by Nuclide Composition, (USD Million), 2021 & 2025 & 2032
Table 62. World Einsteinium-255 Production by Nuclide Composition (2021-2026) & (mCi)
Table 63. World Einsteinium-255 Production by Nuclide Composition (2027-2032) & (mCi)
Table 64. World Einsteinium-255 Production Value by Nuclide Composition (2021-2026) & (USD Million)
Table 65. World Einsteinium-255 Production Value by Nuclide Composition (2027-2032) & (USD Million)
Table 66. World Einsteinium-255 Average Price by Nuclide Composition (2021-2026) & (US$/mCi)
Table 67. World Einsteinium-255 Average Price by Nuclide Composition (2027-2032) & (US$/mCi)
Table 68. World Einsteinium-255 Production Value by Chemical and Physical Form, (USD Million), 2021 & 2025 & 2032
Table 69. World Einsteinium-255 Production by Chemical and Physical Form (2021-2026) & (mCi)
Table 70. World Einsteinium-255 Production by Chemical and Physical Form

+357 96 030922
info@marketpublishers.com

(2027-2032) & (mCi)
Table 71. World Einsteinium-255 Production Value by Chemical and Physical Form (2021-2026) & (USD Million)
Table 72. World Einsteinium-255 Production Value by Chemical and Physical Form (2027-2032) & (USD Million)
Table 73. World Einsteinium-255 Average Price by Chemical and Physical Form (2021-2026) & (US$/mCi)
Table 74. World Einsteinium-255 Average Price by Chemical and Physical Form (2027-2032) & (US$/mCi)
Table 75. World Einsteinium-255 Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 76. World Einsteinium-255 Production by Application (2021-2026) & (mCi)
Table 77. World Einsteinium-255 Production by Application (2027-2032) & (mCi)
Table 78. World Einsteinium-255 Production Value by Application (2021-2026) & (USD Million)
Table 79. World Einsteinium-255 Production Value by Application (2027-2032) & (USD Million)
Table 80. World Einsteinium-255 Average Price by Application (2021-2026) & (US$/mCi)
Table 81. World Einsteinium-255 Average Price by Application (2027-2032) & (US$/mCi)
Table 82. ORNL Basic Information, Manufacturing Base and Competitors
Table 83. ORNL Major Business
Table 84. ORNL Einsteinium-255 Product and Services
Table 85. ORNL Einsteinium-255 Production (mCi), Price (US$/mCi), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 86. ORNL Recent Developments/Updates
Table 87. ORNL Competitive Strengths & Weaknesses
Table 88. LANL Basic Information, Manufacturing Base and Competitors
Table 89. LANL Major Business
Table 90. LANL Einsteinium-255 Product and Services
Table 91. LANL Einsteinium-255 Production (mCi), Price (US$/mCi), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 92. LANL Recent Developments/Updates
Table 93. LANL Competitive Strengths & Weaknesses
Table 94. LBNL Basic Information, Manufacturing Base and Competitors
Table 95. LBNL Major Business
Table 96. LBNL Einsteinium-255 Product and Services
Table 97. LBNL Einsteinium-255 Production (mCi), Price (US$/mCi), Production Value

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(USD Million), Gross Margin and Market Share (2021-2026)
Table 98. LBNL Recent Developments/Updates
Table 99. LBNL Competitive Strengths & Weaknesses
Table 100. Joint Institute for Nuclear Research Basic Information, Manufacturing Base and Competitors
Table 101. Joint Institute for Nuclear Research Major Business
Table 102. Joint Institute for Nuclear Research Einsteinium-255 Product and Services
Table 103. Joint Institute for Nuclear Research Einsteinium-255 Production (mCi), Price (US$/mCi), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 104. Joint Institute for Nuclear Research Recent Developments/Updates
Table 105. Joint Institute for Nuclear Research Competitive Strengths & Weaknesses
Table 106. CERN Basic Information, Manufacturing Base and Competitors
Table 107. CERN Major Business
Table 108. CERN Einsteinium-255 Product and Services
Table 109. CERN Einsteinium-255 Production (mCi), Price (US$/mCi), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 110. CERN Recent Developments/Updates
Table 111. CERN Competitive Strengths & Weaknesses
Table 112. JAEA Basic Information, Manufacturing Base and Competitors
Table 113. JAEA Major Business
Table 114. JAEA Einsteinium-255 Product and Services
Table 115. JAEA Einsteinium-255 Production (mCi), Price (US$/mCi), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 116. JAEA Recent Developments/Updates
Table 117. JAEA Competitive Strengths & Weaknesses
Table 118. American Elements Basic Information, Manufacturing Base and Competitors
Table 119. American Elements Major Business
Table 120. American Elements Einsteinium-255 Product and Services
Table 121. American Elements Einsteinium-255 Production (mCi), Price (US$/mCi), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 122. American Elements Recent Developments/Updates
Table 123. American Elements Competitive Strengths & Weaknesses
Table 124. ISOFLEX USA Basic Information, Manufacturing Base and Competitors
Table 125. ISOFLEX USA Major Business
Table 126. ISOFLEX USA Einsteinium-255 Product and Services
Table 127. ISOFLEX USA Einsteinium-255 Production (mCi), Price (US$/mCi), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 128. ISOFLEX USA Recent Developments/Updates

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Table 129. ISOFLEX USA Competitive Strengths & Weaknesses
Table 130. Global Key Players of Einsteinium-255 Upstream (Raw Materials)
Table 131. Global Einsteinium-255 Typical Customers
Table 132. Einsteinium-255 Typical Distributors

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List Of Figures

LIST OF FIGURES

Figure 1. Einsteinium-255 Picture
Figure 2. World Einsteinium-255 Production Value: 2021 & 2025 & 2032, (USD Million)
Figure 3. World Einsteinium-255 Production Value and Forecast (2021-2032) & (USD Million)
Figure 4. World Einsteinium-255 Production (2021-2032) & (mCi)
Figure 5. World Einsteinium-255 Average Price (2021-2032) & (US$/mCi)
Figure 6. World Einsteinium-255 Production Value Market Share by Region (2021-2032)
Figure 7. World Einsteinium-255 Production Market Share by Region (2021-2032)
Figure 8. North America Einsteinium-255 Production (2021-2032) & (mCi)
Figure 9. Europe Einsteinium-255 Production (2021-2032) & (mCi)
Figure 10. China Einsteinium-255 Production (2021-2032) & (mCi)
Figure 11. Japan Einsteinium-255 Production (2021-2032) & (mCi)
Figure 12. Einsteinium-255 Market Drivers
Figure 13. Factors Affecting Demand
Figure 14. World Einsteinium-255 Consumption (2021-2032) & (mCi)
Figure 15. World Einsteinium-255 Consumption Market Share by Region (2021-2032)
Figure 16. United States Einsteinium-255 Consumption (2021-2032) & (mCi)
Figure 17. China Einsteinium-255 Consumption (2021-2032) & (mCi)
Figure 18. Europe Einsteinium-255 Consumption (2021-2032) & (mCi)
Figure 19. Japan Einsteinium-255 Consumption (2021-2032) & (mCi)
Figure 20. South Korea Einsteinium-255 Consumption (2021-2032) & (mCi)
Figure 21. ASEAN Einsteinium-255 Consumption (2021-2032) & (mCi)
Figure 22. India Einsteinium-255 Consumption (2021-2032) & (mCi)
Figure 23. Producer Shipments of Einsteinium-255 by Manufacturer Revenue ($MM) and Market Share (%): 2025
Figure 24. Global Four-firm Concentration Ratios (CR4) for Einsteinium-255 Markets in 2025
Figure 25. Global Four-firm Concentration Ratios (CR8) for Einsteinium-255 Markets in 2025
Figure 26. United States VS China: Einsteinium-255 Production Value Market Share Comparison (2021 & 2025 & 2032)
Figure 27. United States VS China: Einsteinium-255 Production Market Share Comparison (2021 & 2025 & 2032)
Figure 28. United States VS China: Einsteinium-255 Consumption Market Share Comparison (2021 & 2025 & 2032)

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Figure 29. United States Based Manufacturers Einsteinium-255 Production Market Share 2025
Figure 30. China Based Manufacturers Einsteinium-255 Production Market Share 2025
Figure 31. Rest of World Based Manufacturers Einsteinium-255 Production Market Share 2025
Figure 32. World Einsteinium-255 Production Value by Type, (USD Million), 2021 & 2025 & 2032
Figure 33. World Einsteinium-255 Production Value Market Share by Type in 2025
Figure 34. Reactor Irradiation Production
Figure 35. Accelerator Synthesis
Figure 36. World Einsteinium-255 Production Market Share by Type (2021-2032)
Figure 37. World Einsteinium-255 Production Value Market Share by Type (2021-2032)
Figure 38. World Einsteinium-255 Average Price by Type (2021-2032) & (US$/mCi)
Figure 39. World Einsteinium-255 Production Value by Supply Form, (USD Million), 2021 & 2025 & 2032
Figure 40. World Einsteinium-255 Production Value Market Share by Supply Form in 2025
Figure 41. In-target (Unseparated)
Figure 42. Radiochemically Separated
Figure 43. Purified Research-grade Sample
Figure 44. Einsteinium-255/Fermium-255 Generator
Figure 45. World Einsteinium-255 Production Market Share by Supply Form (2021-2032)
Figure 46. World Einsteinium-255 Production Value Market Share by Supply Form (2021-2032)
Figure 47. World Einsteinium-255 Average Price by Supply Form (2021-2032) & (US$/mCi)
Figure 48. World Einsteinium-255 Production Value by Nuclide Composition, (USD Million), 2021 & 2025 & 2032
Figure 49. World Einsteinium-255 Production Value Market Share by Nuclide Composition in 2025
Figure 50. Mixed Einsteinium Isotopes
Figure 51. Enriched Einsteinium-255
Figure 52. Einsteinium-255/Fermium-255 Equilibrium Mixture
Figure 53. World Einsteinium-255 Production Market Share by Nuclide Composition (2021-2032)
Figure 54. World Einsteinium-255 Production Value Market Share by Nuclide Composition (2021-2032)
Figure 55. World Einsteinium-255 Average Price by Nuclide Composition (2021-2032) &

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(US$/mCi)
Figure 56. World Einsteinium-255 Production Value by Chemical and Physical Form, (USD Million), 2021 & 2025 & 2032
Figure 57. World Einsteinium-255 Production Value Market Share by Chemical and Physical Form in 2025
Figure 58. Acidic Solution
Figure 59. Dry Deposit
Figure 60. Electrodeposited Target
Figure 61. Irradiated Target Matrix
Figure 62. World Einsteinium-255 Production Market Share by Chemical and Physical Form (2021-2032)
Figure 63. World Einsteinium-255 Production Value Market Share by Chemical and Physical Form (2021-2032)
Figure 64. World Einsteinium-255 Average Price by Chemical and Physical Form (2021-2032) & (US$/mCi)
Figure 65. World Einsteinium-255 Production Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 66. World Einsteinium-255 Production Value Market Share by Application in 2025
Figure 67. Superheavy Element Synthesis
Figure 68. Scientific Research
Figure 69. World Einsteinium-255 Production Market Share by Application (2021-2032)
Figure 70. World Einsteinium-255 Production Value Market Share by Application (2021-2032)
Figure 71. World Einsteinium-255 Average Price by Application (2021-2032) & (US$/mCi)
Figure 72. Einsteinium-255 Industry Chain
Figure 73. Einsteinium-255 Procurement Model
Figure 74. Einsteinium-255 Sales Model
Figure 75. Einsteinium-255 Sales Channels, Direct Sales, and Distribution
Figure 76. Methodology
Figure 77. Research Process and Data Source

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