

Global Gadolinium-160 Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Gadolinium-160 market size was valued at US\$ million in 2025 and is forecast to a readjusted size of US\$ million by 2032 with a CAGR of %during review period.

In 2025, global production of Gadolinium-160 was approximately 320 grams, with an average global market price of around \$11,800 per gram. That year, total global production capacity for Gadolinium-160 reached 200 grams, and the industry's average gross profit margin stood at 24%. Gadolinium-160 (Gd-160) is a stable isotope of the rare-earth element gadolinium, characterized by an atomic number of 64 and a mass number of 160; it accounts for approximately 21.86% of natural gadolinium. As a stable nuclide, Gd-160 is non-radioactive; its primary value stems from the excellent neutron-interaction properties of gadolinium and its role as a fundamental nuclide in nuclear science, isotope research, and advanced materials. Unlike isotopes such as Gd-155 and Gd-157, which possess extremely high thermal neutron capture cross-sections, Gd-160 has a relatively low neutron absorption capacity. However, due to its stability and high natural abundance, it serves as a key component in the study of gadolinium isotope systems and is utilized in nuclear reaction cross-section measurements, isotope abundance analysis, the development of nuclear data databases, and research into rare-earth isotope separation. Gd-160 is also a significant subject of study for enriched gadolinium materials, holding value in isotope separation, nuclear physics experiments, and the preparation of high-purity rare-earth materials. With advancements in nuclear technology, medical isotope production, and isotope analysis techniques, the demand for high-purity gadolinium isotope materials is rising; as a vital part of the gadolinium isotope system, the market value of Gd-160 is concentrated in research-grade applications, high-purity materials, and isotope research.

The upstream sector of the Gd-160 industry chain primarily encompasses rare-earth ore development, the preparation of high-purity gadolinium raw materials, gadolinium isotope separation, and the supply of analytical and testing equipment. Natural gadolinium is mainly derived from sources such as monazite, bastnäsite, and ion-adsorption rare-earth ores, where it typically co-occurs with other rare-earth elements like lanthanum, cerium, neodymium, praseodymium, terbium, and dysprosium. Industrial production begins with processes such as ore beneficiation, acid leaching, solvent extraction, and ion exchange to obtain high-purity gadolinium oxide (Gd₂O₃) or gadolinium salts, followed by further purification and isotopic adjustment based on specific application requirements. Natural gadolinium consists of multiple stable isotopes, with Gadolinium-160 (Gd-160) having a natural abundance of approximately 21.86%. Since certain scientific research and nuclear technology applications require higher purity or specific isotopic ratios, processing techniques such as electromagnetic isotope separation, chemical exchange, and mass spectrometric separation are employed. The midstream sector of the industry chain—comprising isotope material suppliers, research institutions, high-purity material enterprises, and nuclear technology service platforms—is responsible for the purification, enrichment, and processing of Gd-160, as well as the development of standardized products. Depending on specific application requirements, midstream products primarily include high-purity Gd-160 oxide, Gd-160 chloride, Gd-160 nitrate, Gd-160 metal, and isotopic standard samples. In scientific research, emphasis is placed on the accuracy of Gd-160 isotopic abundance, chemical purity, impurity levels, and data traceability; consequently, quality control integrates high-resolution mass spectrometry, isotope ratio analysis, and advanced purification processes. In the fields of nuclear data research and isotope analysis, Gd-160 serves as an experimental standard material for investigating the nuclear reaction behavior of gadolinium, changes in isotopic composition, and the refinement of nuclear databases. Downstream applications of Gd-160 are concentrated in nuclear physics research, isotope analysis, geosciences, high-end research materials, and specific nuclear technology sectors. Within nuclear science, Gd-160—as a stable gadolinium isotope—is utilized in nuclear reaction experiments, nuclear data measurements, and isotopic abundance studies, providing fundamental data for refining nuclear databases and optimizing nuclear models. In geochemistry and materials analysis, gadolinium isotope systems are used to study geological processes, rare-earth element migration patterns, and changes in material composition, with high-purity Gd-160 standard samples enhancing the accuracy of isotopic test results. Furthermore, with the advancement of advanced nuclear energy, medical isotope production, and quantum materials research, the importance of high-purity stable isotope materials continues to grow, positioning Gd-160 as a foundational material in these research fields.

As a key stable isotope within the natural gadolinium system, Gadolinium-160 (Gd-160) plays a vital role in nuclear data measurement, isotopic abundance analysis, geochemical research, and materials science experiments. With the continuous advancement of high-resolution mass spectrometry, isotope ratio analysis techniques, and precision detection equipment, there is a growing demand among research institutions for high-purity, low-impurity, and traceable stable isotope reference materials. Gd-160 serves as a crucial component in the study of gadolinium isotope systems, facilitating the refinement of nuclear databases, the investigation of rare-earth element migration patterns, and the analysis of isotope fractionation mechanisms. Driven by ongoing investment in fields such as deep-earth exploration, planetary science, and advanced materials research, the demand for high-purity Gd-160 reference materials is expected to maintain steady growth.

Although Gd-160 is not a primary neutron-absorbing isotope, its status as a key member of the gadolinium isotope system gives it significant value in nuclear materials research, isotope separation technology development, and the study of medical radionuclide supply chains. The rapid development of precision nuclear medicine and theranostics has drawn attention to novel diagnostic radionuclides like Terbium-155; consequently, the demand for enriched gadolinium isotope materials—which serve as a fundamental basis for accelerator-based nuclear reaction targets—is steadily rising. In the future, Gd-160-related materials are likely to enter the medical isotope supply chain increasingly in the form of high-purity isotope products, research targets, and materials for nuclear technology experiments, thereby driving the stable isotope materials market toward greater specialization.

Report Scope

This report is a detailed and comprehensive analysis for global Gadolinium-160 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 Gadolinium-160 market size and forecasts, in consumption value (\$ Million), sales quantity (Gram), and average selling prices (US\$/g), 2021-2032

Global Gadolinium-160 market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Gram), and average selling prices (US\$/g), 2021-2032

Global Gadolinium-160 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 Gadolinium-160 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 Gadolinium-160

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 Gadolinium-160 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, Rosatom, Neonest AB(BuyIsotope), CortecNet, Kinectrics, Eurisotop, American Elements, EvitaChem, etc.

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

Gadolinium-160 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 Segmentation

Market segment by Type

Nuclear Reactor Irradiation Production

Isotope Separation Production

Market segment by Product Form

Gadolinium-160 Metal

Gadolinium-160 Compounds

Market segment by Purity Grade

Industrial-grade Gadolinium-160

Research-grade Gadolinium-160

Market segment by Abundance

Natural Abundance Gadolinium-160 (20%–25%)

Enriched Gadolinium-160 (25%–70%)

High-abundance Gadolinium-160 (70%–95%)

Ultra-high-abundance Gadolinium-160 (>95%)

Market segment by Application

Medical Imaging

Nuclear Reactors

Materials Science

Research Applications

Major players covered

NIDC

Rosatom

Neonest AB(Buylsotope)

CortecNet

Kinectrics

Eurisotop

American Elements

EvitaChem

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)

Chapter Outline

Chapter 1, to describe Gadolinium-160 product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Gadolinium-160, with price, sales quantity, revenue, and global market share of Gadolinium-160 from 2021 to 2026.

Chapter 3, the Gadolinium-160 competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Gadolinium-160 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 Gadolinium-160 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 Gadolinium-160.

Chapter 14 and 15, to describe Gadolinium-160 sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Gadolinium-160 Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Nuclear Reactor Irradiation Production

1.3.3 Isotope Separation Production

1.4 Market Analysis by Product Form

1.4.1 Overview: Global Gadolinium-160 Consumption Value by Product Form: 2021 Versus 2025 Versus 2032

1.4.2 Gadolinium-160 Metal

1.4.3 Gadolinium-160 Compounds

1.5 Market Analysis by Purity Grade

1.5.1 Overview: Global Gadolinium-160 Consumption Value by Purity Grade: 2021 Versus 2025 Versus 2032

1.5.2 Industrial-grade Gadolinium-160

1.5.3 Research-grade Gadolinium-160

1.6 Market Analysis by Abundance

1.6.1 Overview: Global Gadolinium-160 Consumption Value by Abundance: 2021 Versus 2025 Versus 2032

1.6.2 Natural Abundance Gadolinium-160 (20%–25%)

1.6.3 Enriched Gadolinium-160 (25%–70%)

1.6.4 High-abundance Gadolinium-160 (70%–95%)

1.6.5 Ultra-high-abundance Gadolinium-160 (?95%)

1.7 Market Analysis by Application

1.7.1 Overview: Global Gadolinium-160 Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.7.2 Medical Imaging

1.7.3 Nuclear Reactors

1.7.4 Materials Science

1.7.5 Research Applications

1.8 Global Gadolinium-160 Market Size & Forecast

1.8.1 Global Gadolinium-160 Consumption Value (2021 & 2025 & 2032)

1.8.2 Global Gadolinium-160 Sales Quantity (2021-2032)

1.8.3 Global Gadolinium-160 Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 NIDC

2.1.1 NIDC Details

2.1.2 NIDC Major Business

2.1.3 NIDC Gadolinium-160 Product and Services

2.1.4 NIDC Gadolinium-160 Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 NIDC Recent Developments/Updates

2.2 Rosatom

2.2.1 Rosatom Details

2.2.2 Rosatom Major Business

2.2.3 Rosatom Gadolinium-160 Product and Services

2.2.4 Rosatom Gadolinium-160 Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Rosatom Recent Developments/Updates

2.3 Neonest AB(BuyIsotope)

2.3.1 Neonest AB(BuyIsotope) Details

2.3.2 Neonest AB(BuyIsotope) Major Business

2.3.3 Neonest AB(BuyIsotope) Gadolinium-160 Product and Services

2.3.4 Neonest AB(BuyIsotope) Gadolinium-160 Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Neonest AB(BuyIsotope) Recent Developments/Updates

2.4 CortecNet

2.4.1 CortecNet Details

2.4.2 CortecNet Major Business

2.4.3 CortecNet Gadolinium-160 Product and Services

2.4.4 CortecNet Gadolinium-160 Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 CortecNet Recent Developments/Updates

2.5 Kinectrics

2.5.1 Kinectrics Details

2.5.2 Kinectrics Major Business

2.5.3 Kinectrics Gadolinium-160 Product and Services

2.5.4 Kinectrics Gadolinium-160 Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Kinectrics Recent Developments/Updates

2.6 Eurisotop

- 2.6.1 Eurisotop Details
- 2.6.2 Eurisotop Major Business
- 2.6.3 Eurisotop Gadolinium-160 Product and Services
- 2.6.4 Eurisotop Gadolinium-160 Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.6.5 Eurisotop Recent Developments/Updates
- 2.7 American Elements
 - 2.7.1 American Elements Details
 - 2.7.2 American Elements Major Business
 - 2.7.3 American Elements Gadolinium-160 Product and Services
 - 2.7.4 American Elements Gadolinium-160 Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 American Elements Recent Developments/Updates
- 2.8 EvitaChem
 - 2.8.1 EvitaChem Details
 - 2.8.2 EvitaChem Major Business
 - 2.8.3 EvitaChem Gadolinium-160 Product and Services
 - 2.8.4 EvitaChem Gadolinium-160 Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 EvitaChem Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: GADOLINIUM-160 BY MANUFACTURER

- 3.1 Global Gadolinium-160 Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Gadolinium-160 Revenue by Manufacturer (2021-2026)
- 3.3 Global Gadolinium-160 Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Gadolinium-160 by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Gadolinium-160 Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Gadolinium-160 Manufacturer Market Share in 2025
- 3.5 Gadolinium-160 Market: Overall Company Footprint Analysis
 - 3.5.1 Gadolinium-160 Market: Region Footprint
 - 3.5.2 Gadolinium-160 Market: Company Product Type Footprint
 - 3.5.3 Gadolinium-160 Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Gadolinium-160 Market Size by Region

4.1.1 Global Gadolinium-160 Sales Quantity by Region (2021-2032)

4.1.2 Global Gadolinium-160 Consumption Value by Region (2021-2032)

4.1.3 Global Gadolinium-160 Average Price by Region (2021-2032)

4.2 North America Gadolinium-160 Consumption Value (2021-2032)

4.3 Europe Gadolinium-160 Consumption Value (2021-2032)

4.4 Asia-Pacific Gadolinium-160 Consumption Value (2021-2032)

4.5 South America Gadolinium-160 Consumption Value (2021-2032)

4.6 Middle East & Africa Gadolinium-160 Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Gadolinium-160 Sales Quantity by Type (2021-2032)

5.2 Global Gadolinium-160 Consumption Value by Type (2021-2032)

5.3 Global Gadolinium-160 Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Gadolinium-160 Sales Quantity by Application (2021-2032)

6.2 Global Gadolinium-160 Consumption Value by Application (2021-2032)

6.3 Global Gadolinium-160 Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Gadolinium-160 Sales Quantity by Type (2021-2032)

7.2 North America Gadolinium-160 Sales Quantity by Application (2021-2032)

7.3 North America Gadolinium-160 Market Size by Country

7.3.1 North America Gadolinium-160 Sales Quantity by Country (2021-2032)

7.3.2 North America Gadolinium-160 Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Gadolinium-160 Sales Quantity by Type (2021-2032)

8.2 Europe Gadolinium-160 Sales Quantity by Application (2021-2032)

8.3 Europe Gadolinium-160 Market Size by Country

- 8.3.1 Europe Gadolinium-160 Sales Quantity by Country (2021-2032)
- 8.3.2 Europe Gadolinium-160 Consumption Value by Country (2021-2032)
- 8.3.3 Germany Market Size and Forecast (2021-2032)
- 8.3.4 France Market Size and Forecast (2021-2032)
- 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
- 8.3.6 Russia Market Size and Forecast (2021-2032)
- 8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Gadolinium-160 Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific Gadolinium-160 Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific Gadolinium-160 Market Size by Region
 - 9.3.1 Asia-Pacific Gadolinium-160 Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific Gadolinium-160 Consumption Value by Region (2021-2032)
 - 9.3.3 China Market Size and Forecast (2021-2032)
 - 9.3.4 Japan Market Size and Forecast (2021-2032)
 - 9.3.5 South Korea Market Size and Forecast (2021-2032)
 - 9.3.6 India Market Size and Forecast (2021-2032)
 - 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
 - 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America Gadolinium-160 Sales Quantity by Type (2021-2032)
- 10.2 South America Gadolinium-160 Sales Quantity by Application (2021-2032)
- 10.3 South America Gadolinium-160 Market Size by Country
 - 10.3.1 South America Gadolinium-160 Sales Quantity by Country (2021-2032)
 - 10.3.2 South America Gadolinium-160 Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Gadolinium-160 Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa Gadolinium-160 Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa Gadolinium-160 Market Size by Country
 - 11.3.1 Middle East & Africa Gadolinium-160 Sales Quantity by Country (2021-2032)
 - 11.3.2 Middle East & Africa Gadolinium-160 Consumption Value by Country

(2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Gadolinium-160 Market Drivers

12.2 Gadolinium-160 Market Restraints

12.3 Gadolinium-160 Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Gadolinium-160 and Key Manufacturers

13.2 Manufacturing Costs Percentage of Gadolinium-160

13.3 Gadolinium-160 Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Gadolinium-160 Typical Distributors

14.3 Gadolinium-160 Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Gadolinium-160 Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Gadolinium-160 Consumption Value by Product Form, (USD Million), 2021 & 2025 & 2032

Table 3. Global Gadolinium-160 Consumption Value by Purity Grade, (USD Million), 2021 & 2025 & 2032

Table 4. Global Gadolinium-160 Consumption Value by Abundance, (USD Million), 2021 & 2025 & 2032

Table 5. Global Gadolinium-160 Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 6. NIDC Basic Information, Manufacturing Base and Competitors

Table 7. NIDC Major Business

Table 8. NIDC Gadolinium-160 Product and Services

Table 9. NIDC Gadolinium-160 Sales Quantity (Gram), Average Price (US\$/g), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 10. NIDC Recent Developments/Updates

Table 11. Rosatom Basic Information, Manufacturing Base and Competitors

Table 12. Rosatom Major Business

Table 13. Rosatom Gadolinium-160 Product and Services

Table 14. Rosatom Gadolinium-160 Sales Quantity (Gram), Average Price (US\$/g), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 15. Rosatom Recent Developments/Updates

Table 16. Neonest AB(Buylsotope) Basic Information, Manufacturing Base and Competitors

Table 17. Neonest AB(Buylsotope) Major Business

Table 18. Neonest AB(Buylsotope) Gadolinium-160 Product and Services

Table 19. Neonest AB(Buylsotope) Gadolinium-160 Sales Quantity (Gram), Average Price (US\$/g), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 20. Neonest AB(Buylsotope) Recent Developments/Updates

Table 21. CortecNet Basic Information, Manufacturing Base and Competitors

Table 22. CortecNet Major Business

Table 23. CortecNet Gadolinium-160 Product and Services

Table 24. CortecNet Gadolinium-160 Sales Quantity (Gram), Average Price (US\$/g), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 25. CortecNet Recent Developments/Updates

Table 26. Kinectrics Basic Information, Manufacturing Base and Competitors
Table 27. Kinectrics Major Business
Table 28. Kinectrics Gadolinium-160 Product and Services
Table 29. Kinectrics Gadolinium-160 Sales Quantity (Gram), Average Price (US\$/g), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 30. Kinectrics Recent Developments/Updates
Table 31. Eurisotop Basic Information, Manufacturing Base and Competitors
Table 32. Eurisotop Major Business
Table 33. Eurisotop Gadolinium-160 Product and Services
Table 34. Eurisotop Gadolinium-160 Sales Quantity (Gram), Average Price (US\$/g), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 35. Eurisotop Recent Developments/Updates
Table 36. American Elements Basic Information, Manufacturing Base and Competitors
Table 37. American Elements Major Business
Table 38. American Elements Gadolinium-160 Product and Services
Table 39. American Elements Gadolinium-160 Sales Quantity (Gram), Average Price (US\$/g), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 40. American Elements Recent Developments/Updates
Table 41. EvitaChem Basic Information, Manufacturing Base and Competitors
Table 42. EvitaChem Major Business
Table 43. EvitaChem Gadolinium-160 Product and Services
Table 44. EvitaChem Gadolinium-160 Sales Quantity (Gram), Average Price (US\$/g), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 45. EvitaChem Recent Developments/Updates
Table 46. Global Gadolinium-160 Sales Quantity by Manufacturer (2021-2026) & (Gram)
Table 47. Global Gadolinium-160 Revenue by Manufacturer (2021-2026) & (USD Million)
Table 48. Global Gadolinium-160 Average Price by Manufacturer (2021-2026) & (US\$/g)
Table 49. Market Position of Manufacturers in Gadolinium-160, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
Table 50. Head Office and Gadolinium-160 Production Site of Key Manufacturer
Table 51. Gadolinium-160 Market: Company Product Type Footprint
Table 52. Gadolinium-160 Market: Company Product Application Footprint
Table 53. Gadolinium-160 New Market Entrants and Barriers to Market Entry
Table 54. Gadolinium-160 Mergers, Acquisition, Agreements, and Collaborations
Table 55. Global Gadolinium-160 Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 56. Global Gadolinium-160 Sales Quantity by Region (2021-2026) & (Gram)

Table 57. Global Gadolinium-160 Sales Quantity by Region (2027-2032) & (Gram)

Table 58. Global Gadolinium-160 Consumption Value by Region (2021-2026) & (USD Million)

Table 59. Global Gadolinium-160 Consumption Value by Region (2027-2032) & (USD Million)

Table 60. Global Gadolinium-160 Average Price by Region (2021-2026) & (US\$/g)

Table 61. Global Gadolinium-160 Average Price by Region (2027-2032) & (US\$/g)

Table 62. Global Gadolinium-160 Sales Quantity by Type (2021-2026) & (Gram)

Table 63. Global Gadolinium-160 Sales Quantity by Type (2027-2032) & (Gram)

Table 64. Global Gadolinium-160 Consumption Value by Type (2021-2026) & (USD Million)

Table 65. Global Gadolinium-160 Consumption Value by Type (2027-2032) & (USD Million)

Table 66. Global Gadolinium-160 Average Price by Type (2021-2026) & (US\$/g)

Table 67. Global Gadolinium-160 Average Price by Type (2027-2032) & (US\$/g)

Table 68. Global Gadolinium-160 Sales Quantity by Application (2021-2026) & (Gram)

Table 69. Global Gadolinium-160 Sales Quantity by Application (2027-2032) & (Gram)

Table 70. Global Gadolinium-160 Consumption Value by Application (2021-2026) & (USD Million)

Table 71. Global Gadolinium-160 Consumption Value by Application (2027-2032) & (USD Million)

Table 72. Global Gadolinium-160 Average Price by Application (2021-2026) & (US\$/g)

Table 73. Global Gadolinium-160 Average Price by Application (2027-2032) & (US\$/g)

Table 74. North America Gadolinium-160 Sales Quantity by Type (2021-2026) & (Gram)

Table 75. North America Gadolinium-160 Sales Quantity by Type (2027-2032) & (Gram)

Table 76. North America Gadolinium-160 Sales Quantity by Application (2021-2026) & (Gram)

Table 77. North America Gadolinium-160 Sales Quantity by Application (2027-2032) & (Gram)

Table 78. North America Gadolinium-160 Sales Quantity by Country (2021-2026) & (Gram)

Table 79. North America Gadolinium-160 Sales Quantity by Country (2027-2032) & (Gram)

Table 80. North America Gadolinium-160 Consumption Value by Country (2021-2026) & (USD Million)

Table 81. North America Gadolinium-160 Consumption Value by Country (2027-2032) & (USD Million)

Table 82. Europe Gadolinium-160 Sales Quantity by Type (2021-2026) & (Gram)

- Table 83. Europe Gadolinium-160 Sales Quantity by Type (2027-2032) & (Gram)
- Table 84. Europe Gadolinium-160 Sales Quantity by Application (2021-2026) & (Gram)
- Table 85. Europe Gadolinium-160 Sales Quantity by Application (2027-2032) & (Gram)
- Table 86. Europe Gadolinium-160 Sales Quantity by Country (2021-2026) & (Gram)
- Table 87. Europe Gadolinium-160 Sales Quantity by Country (2027-2032) & (Gram)
- Table 88. Europe Gadolinium-160 Consumption Value by Country (2021-2026) & (USD Million)
- Table 89. Europe Gadolinium-160 Consumption Value by Country (2027-2032) & (USD Million)
- Table 90. Asia-Pacific Gadolinium-160 Sales Quantity by Type (2021-2026) & (Gram)
- Table 91. Asia-Pacific Gadolinium-160 Sales Quantity by Type (2027-2032) & (Gram)
- Table 92. Asia-Pacific Gadolinium-160 Sales Quantity by Application (2021-2026) & (Gram)
- Table 93. Asia-Pacific Gadolinium-160 Sales Quantity by Application (2027-2032) & (Gram)
- Table 94. Asia-Pacific Gadolinium-160 Sales Quantity by Region (2021-2026) & (Gram)
- Table 95. Asia-Pacific Gadolinium-160 Sales Quantity by Region (2027-2032) & (Gram)
- Table 96. Asia-Pacific Gadolinium-160 Consumption Value by Region (2021-2026) & (USD Million)
- Table 97. Asia-Pacific Gadolinium-160 Consumption Value by Region (2027-2032) & (USD Million)
- Table 98. South America Gadolinium-160 Sales Quantity by Type (2021-2026) & (Gram)
- Table 99. South America Gadolinium-160 Sales Quantity by Type (2027-2032) & (Gram)
- Table 100. South America Gadolinium-160 Sales Quantity by Application (2021-2026) & (Gram)
- Table 101. South America Gadolinium-160 Sales Quantity by Application (2027-2032) & (Gram)
- Table 102. South America Gadolinium-160 Sales Quantity by Country (2021-2026) & (Gram)
- Table 103. South America Gadolinium-160 Sales Quantity by Country (2027-2032) & (Gram)
- Table 104. South America Gadolinium-160 Consumption Value by Country (2021-2026) & (USD Million)
- Table 105. South America Gadolinium-160 Consumption Value by Country (2027-2032) & (USD Million)
- Table 106. Middle East & Africa Gadolinium-160 Sales Quantity by Type (2021-2026) & (Gram)

Table 107. Middle East & Africa Gadolinium-160 Sales Quantity by Type (2027-2032) & (Gram)

Table 108. Middle East & Africa Gadolinium-160 Sales Quantity by Application (2021-2026) & (Gram)

Table 109. Middle East & Africa Gadolinium-160 Sales Quantity by Application (2027-2032) & (Gram)

Table 110. Middle East & Africa Gadolinium-160 Sales Quantity by Country (2021-2026) & (Gram)

Table 111. Middle East & Africa Gadolinium-160 Sales Quantity by Country (2027-2032) & (Gram)

Table 112. Middle East & Africa Gadolinium-160 Consumption Value by Country (2021-2026) & (USD Million)

Table 113. Middle East & Africa Gadolinium-160 Consumption Value by Country (2027-2032) & (USD Million)

Table 114. Gadolinium-160 Raw Material

Table 115. Key Manufacturers of Gadolinium-160 Raw Materials

Table 116. Gadolinium-160 Typical Distributors

Table 117. Gadolinium-160 Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Gadolinium-160 Picture
- Figure 2. Global Gadolinium-160 Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Gadolinium-160 Revenue Market Share by Type in 2025
- Figure 4. Nuclear Reactor Irradiation Production Examples
- Figure 5. Isotope Separation Production Examples
- Figure 6. Global Gadolinium-160 Revenue by Product Form, (USD Million), 2021 & 2025 & 2032
- Figure 7. Global Gadolinium-160 Revenue Market Share by Product Form in 2025
- Figure 8. Gadolinium-160 Metal Examples
- Figure 9. Gadolinium-160 Compounds Examples
- Figure 10. Global Gadolinium-160 Revenue by Purity Grade, (USD Million), 2021 & 2025 & 2032
- Figure 11. Global Gadolinium-160 Revenue Market Share by Purity Grade in 2025
- Figure 12. Industrial-grade Gadolinium-160 Examples
- Figure 13. Research-grade Gadolinium-160 Examples
- Figure 14. Global Gadolinium-160 Revenue by Abundance, (USD Million), 2021 & 2025 & 2032
- Figure 15. Global Gadolinium-160 Revenue Market Share by Abundance in 2025
- Figure 16. Natural Abundance Gadolinium-160 (20%–25%) Examples
- Figure 17. Enriched Gadolinium-160 (25%–70%) Examples
- Figure 18. High-abundance Gadolinium-160 (70%–95%) Examples
- Figure 19. Ultra-high-abundance Gadolinium-160 (>95%) Examples
- Figure 20. Global Gadolinium-160 Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 21. Global Gadolinium-160 Revenue Market Share by Application in 2025
- Figure 22. Medical Imaging Examples
- Figure 23. Nuclear Reactors Examples
- Figure 24. Materials Science Examples
- Figure 25. Research Applications Examples
- Figure 26. Global Gadolinium-160 Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 27. Global Gadolinium-160 Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 28. Global Gadolinium-160 Sales Quantity (2021-2032) & (Gram)
- Figure 29. Global Gadolinium-160 Price (2021-2032) & (US\$/g)

Figure 30. Global Gadolinium-160 Sales Quantity Market Share by Manufacturer in 2025

Figure 31. Global Gadolinium-160 Revenue Market Share by Manufacturer in 2025

Figure 32. Producer Shipments of Gadolinium-160 by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 33. Top 3 Gadolinium-160 Manufacturer (Revenue) Market Share in 2025

Figure 34. Top 6 Gadolinium-160 Manufacturer (Revenue) Market Share in 2025

Figure 35. Global Gadolinium-160 Sales Quantity Market Share by Region (2021-2032)

Figure 36. Global Gadolinium-160 Consumption Value Market Share by Region (2021-2032)

Figure 37. North America Gadolinium-160 Consumption Value (2021-2032) & (USD Million)

Figure 38. Europe Gadolinium-160 Consumption Value (2021-2032) & (USD Million)

Figure 39. Asia-Pacific Gadolinium-160 Consumption Value (2021-2032) & (USD Million)

Figure 40. South America Gadolinium-160 Consumption Value (2021-2032) & (USD Million)

Figure 41. Middle East & Africa Gadolinium-160 Consumption Value (2021-2032) & (USD Million)

Figure 42. Global Gadolinium-160 Sales Quantity Market Share by Type (2021-2032)

Figure 43. Global Gadolinium-160 Consumption Value Market Share by Type (2021-2032)

Figure 44. Global Gadolinium-160 Average Price by Type (2021-2032) & (US\$/g)

Figure 45. Global Gadolinium-160 Sales Quantity Market Share by Application (2021-2032)

Figure 46. Global Gadolinium-160 Revenue Market Share by Application (2021-2032)

Figure 47. Global Gadolinium-160 Average Price by Application (2021-2032) & (US\$/g)

Figure 48. North America Gadolinium-160 Sales Quantity Market Share by Type (2021-2032)

Figure 49. North America Gadolinium-160 Sales Quantity Market Share by Application (2021-2032)

Figure 50. North America Gadolinium-160 Sales Quantity Market Share by Country (2021-2032)

Figure 51. North America Gadolinium-160 Consumption Value Market Share by Country (2021-2032)

Figure 52. United States Gadolinium-160 Consumption Value (2021-2032) & (USD Million)

Figure 53. Canada Gadolinium-160 Consumption Value (2021-2032) & (USD Million)

Figure 54. Mexico Gadolinium-160 Consumption Value (2021-2032) & (USD Million)

Figure 55. Europe Gadolinium-160 Sales Quantity Market Share by Type (2021-2032)

Figure 56. Europe Gadolinium-160 Sales Quantity Market Share by Application (2021-2032)

Figure 57. Europe Gadolinium-160 Sales Quantity Market Share by Country (2021-2032)

Figure 58. Europe Gadolinium-160 Consumption Value Market Share by Country (2021-2032)

Figure 59. Germany Gadolinium-160 Consumption Value (2021-2032) & (USD Million)

Figure 60. France Gadolinium-160 Consumption Value (2021-2032) & (USD Million)

Figure 61. United Kingdom Gadolinium-160 Consumption Value (2021-2032) & (USD Million)

Figure 62. Russia Gadolinium-160 Consumption Value (2021-2032) & (USD Million)

Figure 63. Italy Gadolinium-160 Consumption Value (2021-2032) & (USD Million)

Figure 64. Asia-Pacific Gadolinium-160 Sales Quantity Market Share by Type (2021-2032)

Figure 65. Asia-Pacific Gadolinium-160 Sales Quantity Market Share by Application (2021-2032)

Figure 66. Asia-Pacific Gadolinium-160 Sales Quantity Market Share by Region (2021-2032)

Figure 67. Asia-Pacific Gadolinium-160 Consumption Value Market Share by Region (2021-2032)

Figure 68. China Gadolinium-160 Consumption Value (2021-2032) & (USD Million)

Figure 69. Japan Gadolinium-160 Consumption Value (2021-2032) & (USD Million)

Figure 70. South Korea Gadolinium-160 Consumption Value (2021-2032) & (USD Million)

Figure 71. India Gadolinium-160 Consumption Value (2021-2032) & (USD Million)

Figure 72. Southeast Asia Gadolinium-160 Consumption Value (2021-2032) & (USD Million)

Figure 73. Australia Gadolinium-160 Consumption Value (2021-2032) & (USD Million)

Figure 74. South America Gadolinium-160 Sales Quantity Market Share by Type (2021-2032)

Figure 75. South America Gadolinium-160 Sales Quantity Market Share by Application (2021-2032)

Figure 76. South America Gadolinium-160 Sales Quantity Market Share by Country (2021-2032)

Figure 77. South America Gadolinium-160 Consumption Value Market Share by Country (2021-2032)

Figure 78. Brazil Gadolinium-160 Consumption Value (2021-2032) & (USD Million)

Figure 79. Argentina Gadolinium-160 Consumption Value (2021-2032) & (USD Million)

Figure 80. Middle East & Africa Gadolinium-160 Sales Quantity Market Share by Type (2021-2032)

Figure 81. Middle East & Africa Gadolinium-160 Sales Quantity Market Share by Application (2021-2032)

Figure 82. Middle East & Africa Gadolinium-160 Sales Quantity Market Share by Country (2021-2032)

Figure 83. Middle East & Africa Gadolinium-160 Consumption Value Market Share by Country (2021-2032)

Figure 84. Turkey Gadolinium-160 Consumption Value (2021-2032) & (USD Million)

Figure 85. Egypt Gadolinium-160 Consumption Value (2021-2032) & (USD Million)

Figure 86. Saudi Arabia Gadolinium-160 Consumption Value (2021-2032) & (USD Million)

Figure 87. South Africa Gadolinium-160 Consumption Value (2021-2032) & (USD Million)

Figure 88. Gadolinium-160 Market Drivers

Figure 89. Gadolinium-160 Market Restraints

Figure 90. Gadolinium-160 Market Trends

Figure 91. Porters Five Forces Analysis

Figure 92. Manufacturing Cost Structure Analysis of Gadolinium-160 in 2025

Figure 93. Manufacturing Process Analysis of Gadolinium-160

Figure 94. Gadolinium-160 Industrial Chain

Figure 95. Sales Channel: Direct to End-User vs Distributors

Figure 96. Direct Channel Pros & Cons

Figure 97. Indirect Channel Pros & Cons

Figure 98. Methodology

Figure 99. Research Process and Data Source

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