

Global Nuclear Industry Grade Boron Isotopes Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G1FE040D57AEEN.html>

Date: July 2026

Pages: 101

Price: US\$ 4,480.00 (Single User License)

ID: G1FE040D57AEEN

Abstracts

The global Nuclear Industry Grade Boron Isotopes market size is expected to reach \$ 566 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

In 2025, global sales of nuclear-grade boron isotopes reached 810 tons, with an average selling price of US\$420,000 per ton.

Nuclear-grade boron isotopes, with boron-10 (^{10}B) as their core, have a natural abundance of only 19.78%. However, after enrichment through isotope separation technology, their thermal neutron absorption cross-section reaches 3837 bar. They are key materials for nuclear reactor safety control and are widely used in control rods, shielding panels, and neutron counters. The upstream sector involves boron ore mining and isotope separation technologies (such as cryogenic distillation and chemical exchange). The midstream sector involves the production of intermediates such as boron-10 enriched acid, boron carbide-10, and boron trifluoride-11. Downstream applications include nuclear reactor control rods, shielding materials, boron neutron capture therapy (BNCT), and semiconductor doping.

Key market drivers primarily include the following factors:

Demand for Nuclear Reaction Control Serves as a Fundamental Pillar

Market demand for nuclear-grade boron isotopes stems primarily from the long-term requirement for neutron-absorbing materials within nuclear reactors. Boron—specifically materials containing enriched boron isotopes—is frequently utilized in reactor control rods, burnable poisons, shielding materials, and certain coolant chemistry control

systems; it functions by absorbing neutrons to regulate reactivity and ensure the operational stability of the reactor core. The operation of nuclear power plants, the maintenance of research reactors, and the development of new reactor designs all necessitate boron materials characterized by high purity, compositional stability, and traceable nuclear-grade quality. Consequently, these products are subject to significant technical barriers and rigorous certification requirements.

Heightened Requirements for Nuclear Safety and Material Reliability

Nuclear industry environments impose extremely stringent requirements regarding material consistency, impurity control, radiation stability, and long-term operational reliability; standard industrial-grade boron materials are typically insufficient to meet the demanding conditions of nuclear-grade applications. Once boron isotope materials are deployed in reaction control, shielding, or safety-critical components, any fluctuations in their quality could potentially compromise the reactor's physical performance and operational safety. As a result, customers place increased emphasis on isotopic abundance, chemical purity, batch-to-batch consistency, quality documentation, and supplier credentials. As safety standards for nuclear power operations continue to be reinforced, the value associated with the high-end quality and reliable supply of nuclear-grade boron isotopes is further enhanced.

Emerging Nuclear Energy Technologies and Supply Chain Security Drive Long-Term Demand

The advancement of advanced nuclear power technologies—including small modular reactors (SMRs), fast reactors, research reactors, and various nuclear technology applications—is creating new avenues of demand for nuclear-grade boron isotope materials. Certain novel reactor designs and specialized nuclear applications impose more stringent requirements on the structural forms, thermal stability, and service environments of neutron-absorbing materials, thereby driving the development of boron isotope materials toward greater purity, customization, and modularization. Concurrently, given the highly strategic nature of the nuclear industry, end-users place significant emphasis on the independent control, long-term reliability of supply, and localized support for critical materials; consequently, supply chain security is poised to become a key driver of market growth.

This report studies the global Nuclear Industry Grade Boron Isotopes production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Nuclear Industry Grade Boron Isotopes 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 Nuclear Industry Grade Boron Isotopes that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Nuclear Industry Grade Boron Isotopes total production and demand, 2021-2032, (Tons)

Global Nuclear Industry Grade Boron Isotopes total production value, 2021-2032, (USD Million)

Global Nuclear Industry Grade Boron Isotopes production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Nuclear Industry Grade Boron Isotopes consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Nuclear Industry Grade Boron Isotopes domestic production, consumption, key domestic manufacturers and share

Global Nuclear Industry Grade Boron Isotopes production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Nuclear Industry Grade Boron Isotopes production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Nuclear Industry Grade Boron Isotopes production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Nuclear Industry Grade Boron Isotopes 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 3M^{US}?, Stella Chemifa^{JP}?, Dofluoride^{CN}?, Honghao Chemical^{CN}?, China General Nuclear Power Group^{CN}?, Laimu Technology^{CN}?, Rosatom^{RU}?, Westinghouse^{US}?, NUKEM Isotopes GmbH^{DE}?, 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 Nuclear Industry Grade Boron Isotopes market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) 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 Nuclear Industry Grade Boron Isotopes Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Nuclear Industry Grade Boron Isotopes Market, Segmentation by Type:

Liquid

Solid

Gaseous

Global Nuclear Industry Grade Boron Isotopes Market, Segmentation by Isotopic Abundance:

Boron-10

Boron-11

Others

Global Nuclear Industry Grade Boron Isotopes Market, Segmentation by Technology:

Low-temperature Distillation Method

Chemical Exchange Method

Global Nuclear Industry Grade Boron Isotopes Market, Segmentation by Application:

Nuclear Power

Semiconductors

Others

Companies Profiled:

3M?US?

Stella Chemifa?JP?

Dofluoride?CN?

Honghao Chemical?CN?

China General Nuclear Power Group?CN?

Laimu Technology?CN?

Rosatom?RU?

Westinghouse?US?

NUKEM Isotopes GmbH?DE?

Key Questions Answered:

1. How big is the global Nuclear Industry Grade Boron Isotopes market?
2. What is the demand of the global Nuclear Industry Grade Boron Isotopes market?
3. What is the year over year growth of the global Nuclear Industry Grade Boron Isotopes market?
4. What is the production and production value of the global Nuclear Industry Grade Boron Isotopes market?
5. Who are the key producers in the global Nuclear Industry Grade Boron Isotopes market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Nuclear Industry Grade Boron Isotopes Demand (2021-2032)
- 2.2 World Nuclear Industry Grade Boron Isotopes Consumption by Region
 - 2.2.1 World Nuclear Industry Grade Boron Isotopes Consumption by Region (2021-2026)
 - 2.2.2 World Nuclear Industry Grade Boron Isotopes Consumption Forecast by Region (2027-2032)
- 2.3 United States Nuclear Industry Grade Boron Isotopes Consumption (2021-2032)
- 2.4 China Nuclear Industry Grade Boron Isotopes Consumption (2021-2032)
- 2.5 Europe Nuclear Industry Grade Boron Isotopes Consumption (2021-2032)

- 2.6 Japan Nuclear Industry Grade Boron Isotopes Consumption (2021-2032)
- 2.7 South Korea Nuclear Industry Grade Boron Isotopes Consumption (2021-2032)
- 2.8 ASEAN Nuclear Industry Grade Boron Isotopes Consumption (2021-2032)
- 2.9 India Nuclear Industry Grade Boron Isotopes Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Nuclear Industry Grade Boron Isotopes Production Value by Manufacturer (2021-2026)
- 3.2 World Nuclear Industry Grade Boron Isotopes Production by Manufacturer (2021-2026)
- 3.3 World Nuclear Industry Grade Boron Isotopes Average Price by Manufacturer (2021-2026)
- 3.4 Nuclear Industry Grade Boron Isotopes Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Nuclear Industry Grade Boron Isotopes Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Nuclear Industry Grade Boron Isotopes in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Nuclear Industry Grade Boron Isotopes in 2025
- 3.6 Nuclear Industry Grade Boron Isotopes Market: Overall Company Footprint Analysis
 - 3.6.1 Nuclear Industry Grade Boron Isotopes Market: Region Footprint
 - 3.6.2 Nuclear Industry Grade Boron Isotopes Market: Company Product Type Footprint
 - 3.6.3 Nuclear Industry Grade Boron Isotopes 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: Nuclear Industry Grade Boron Isotopes Production Value Comparison
 - 4.1.1 United States VS China: Nuclear Industry Grade Boron Isotopes Production

Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Nuclear Industry Grade Boron Isotopes Production

Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Nuclear Industry Grade Boron Isotopes Production Comparison

4.2.1 United States VS China: Nuclear Industry Grade Boron Isotopes Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Nuclear Industry Grade Boron Isotopes Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Nuclear Industry Grade Boron Isotopes Consumption Comparison

4.3.1 United States VS China: Nuclear Industry Grade Boron Isotopes Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Nuclear Industry Grade Boron Isotopes Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Nuclear Industry Grade Boron Isotopes Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Nuclear Industry Grade Boron Isotopes Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Nuclear Industry Grade Boron Isotopes Production Value (2021-2026)

4.4.3 United States Based Manufacturers Nuclear Industry Grade Boron Isotopes Production (2021-2026)

4.5 China Based Nuclear Industry Grade Boron Isotopes Manufacturers and Market Share

4.5.1 China Based Nuclear Industry Grade Boron Isotopes Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Nuclear Industry Grade Boron Isotopes Production Value (2021-2026)

4.5.3 China Based Manufacturers Nuclear Industry Grade Boron Isotopes Production (2021-2026)

4.6 Rest of World Based Nuclear Industry Grade Boron Isotopes Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Nuclear Industry Grade Boron Isotopes Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Nuclear Industry Grade Boron Isotopes Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Nuclear Industry Grade Boron Isotopes Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Nuclear Industry Grade Boron Isotopes Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Liquid

5.2.2 Solid

5.2.3 Gaseous

5.3 Market Segment by Type

5.3.1 World Nuclear Industry Grade Boron Isotopes Production by Type (2021-2032)

5.3.2 World Nuclear Industry Grade Boron Isotopes Production Value by Type (2021-2032)

5.3.3 World Nuclear Industry Grade Boron Isotopes Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY ISOTOPIC ABUNDANCE

6.1 World Nuclear Industry Grade Boron Isotopes Market Size Overview by Isotopic Abundance: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Isotopic Abundance

6.2.1 Boron-10

6.2.2 Boron-11

6.2.3 Others

6.3 Market Segment by Isotopic Abundance

6.3.1 World Nuclear Industry Grade Boron Isotopes Production by Isotopic Abundance (2021-2032)

6.3.2 World Nuclear Industry Grade Boron Isotopes Production Value by Isotopic Abundance (2021-2032)

6.3.3 World Nuclear Industry Grade Boron Isotopes Average Price by Isotopic Abundance (2021-2032)

7 MARKET ANALYSIS BY TECHNOLOGY

7.1 World Nuclear Industry Grade Boron Isotopes Market Size Overview by Technology: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Technology

7.2.1 Low-temperature Distillation Method

7.2.2 Chemical Exchange Method

7.3 Market Segment by Technology

7.3.1 World Nuclear Industry Grade Boron Isotopes Production by Technology
(2021-2032)

7.3.2 World Nuclear Industry Grade Boron Isotopes Production Value by Technology
(2021-2032)

7.3.3 World Nuclear Industry Grade Boron Isotopes Average Price by Technology
(2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Nuclear Industry Grade Boron Isotopes Market Size Overview by Application:
2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Nuclear Power

8.2.2 Semiconductors

8.2.3 Others

8.3 Market Segment by Application

8.3.1 World Nuclear Industry Grade Boron Isotopes Production by Application
(2021-2032)

8.3.2 World Nuclear Industry Grade Boron Isotopes Production Value by Application
(2021-2032)

8.3.3 World Nuclear Industry Grade Boron Isotopes Average Price by Application
(2021-2032)

9 COMPANY PROFILES

9.1 3M?US?

9.1.1 3M?US? Details

9.1.2 3M?US? Major Business

9.1.3 3M?US? Nuclear Industry Grade Boron Isotopes Product and Services

9.1.4 3M?US? Nuclear Industry Grade Boron Isotopes Production, Price, Value, Gross
Margin and Market Share (2021-2026)

9.1.5 3M?US? Recent Developments/Updates

9.1.6 3M?US? Competitive Strengths & Weaknesses

9.2 Stella Chemifa?JP?

9.2.1 Stella Chemifa?JP? Details

9.2.2 Stella Chemifa?JP? Major Business

9.2.3 Stella Chemifa?JP? Nuclear Industry Grade Boron Isotopes Product and
Services

9.2.4 Stella Chemifa?JP? Nuclear Industry Grade Boron Isotopes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Stella Chemifa?JP? Recent Developments/Updates

9.2.6 Stella Chemifa?JP? Competitive Strengths & Weaknesses

9.3 Dofluoride?CN?

9.3.1 Dofluoride?CN? Details

9.3.2 Dofluoride?CN? Major Business

9.3.3 Dofluoride?CN? Nuclear Industry Grade Boron Isotopes Product and Services

9.3.4 Dofluoride?CN? Nuclear Industry Grade Boron Isotopes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Dofluoride?CN? Recent Developments/Updates

9.3.6 Dofluoride?CN? Competitive Strengths & Weaknesses

9.4 Honghao Chemical?CN?

9.4.1 Honghao Chemical?CN? Details

9.4.2 Honghao Chemical?CN? Major Business

9.4.3 Honghao Chemical?CN? Nuclear Industry Grade Boron Isotopes Product and Services

9.4.4 Honghao Chemical?CN? Nuclear Industry Grade Boron Isotopes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Honghao Chemical?CN? Recent Developments/Updates

9.4.6 Honghao Chemical?CN? Competitive Strengths & Weaknesses

9.5 China General Nuclear Power Group?CN?

9.5.1 China General Nuclear Power Group?CN? Details

9.5.2 China General Nuclear Power Group?CN? Major Business

9.5.3 China General Nuclear Power Group?CN? Nuclear Industry Grade Boron Isotopes Product and Services

9.5.4 China General Nuclear Power Group?CN? Nuclear Industry Grade Boron Isotopes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 China General Nuclear Power Group?CN? Recent Developments/Updates

9.5.6 China General Nuclear Power Group?CN? Competitive Strengths & Weaknesses

9.6 Laimu Technology?CN?

9.6.1 Laimu Technology?CN? Details

9.6.2 Laimu Technology?CN? Major Business

9.6.3 Laimu Technology?CN? Nuclear Industry Grade Boron Isotopes Product and Services

9.6.4 Laimu Technology?CN? Nuclear Industry Grade Boron Isotopes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Laimu Technology?CN? Recent Developments/Updates

9.6.6 Laimu Technology?CN? Competitive Strengths & Weaknesses

9.7 Rosatom?RU?

9.7.1 Rosatom?RU? Details

9.7.2 Rosatom?RU? Major Business

9.7.3 Rosatom?RU? Nuclear Industry Grade Boron Isotopes Product and Services

9.7.4 Rosatom?RU? Nuclear Industry Grade Boron Isotopes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Rosatom?RU? Recent Developments/Updates

9.7.6 Rosatom?RU? Competitive Strengths & Weaknesses

9.8 Westinghouse?US?

9.8.1 Westinghouse?US? Details

9.8.2 Westinghouse?US? Major Business

9.8.3 Westinghouse?US? Nuclear Industry Grade Boron Isotopes Product and Services

9.8.4 Westinghouse?US? Nuclear Industry Grade Boron Isotopes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Westinghouse?US? Recent Developments/Updates

9.8.6 Westinghouse?US? Competitive Strengths & Weaknesses

9.9 NUKEM Isotopes GmbH?DE?

9.9.1 NUKEM Isotopes GmbH?DE? Details

9.9.2 NUKEM Isotopes GmbH?DE? Major Business

9.9.3 NUKEM Isotopes GmbH?DE? Nuclear Industry Grade Boron Isotopes Product and Services

9.9.4 NUKEM Isotopes GmbH?DE? Nuclear Industry Grade Boron Isotopes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 NUKEM Isotopes GmbH?DE? Recent Developments/Updates

9.9.6 NUKEM Isotopes GmbH?DE? Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Nuclear Industry Grade Boron Isotopes Industry Chain

10.2 Nuclear Industry Grade Boron Isotopes Upstream Analysis

10.2.1 Nuclear Industry Grade Boron Isotopes Core Raw Materials

10.2.2 Main Manufacturers of Nuclear Industry Grade Boron Isotopes Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Nuclear Industry Grade Boron Isotopes Production Mode

10.6 Nuclear Industry Grade Boron Isotopes Procurement Model

10.7 Nuclear Industry Grade Boron Isotopes Industry Sales Model and Sales Channels

10.7.1 Nuclear Industry Grade Boron Isotopes Sales Model

10.7.2 Nuclear Industry Grade Boron Isotopes Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Nuclear Industry Grade Boron Isotopes Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Nuclear Industry Grade Boron Isotopes Production Value by Region (2021-2026) & (USD Million)

Table 3. World Nuclear Industry Grade Boron Isotopes Production Value by Region (2027-2032) & (USD Million)

Table 4. World Nuclear Industry Grade Boron Isotopes Production Value Market Share by Region (2021-2026)

Table 5. World Nuclear Industry Grade Boron Isotopes Production Value Market Share by Region (2027-2032)

Table 6. World Nuclear Industry Grade Boron Isotopes Production by Region (2021-2026) & (Tons)

Table 7. World Nuclear Industry Grade Boron Isotopes Production by Region (2027-2032) & (Tons)

Table 8. World Nuclear Industry Grade Boron Isotopes Production Market Share by Region (2021-2026)

Table 9. World Nuclear Industry Grade Boron Isotopes Production Market Share by Region (2027-2032)

Table 10. World Nuclear Industry Grade Boron Isotopes Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Nuclear Industry Grade Boron Isotopes Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Nuclear Industry Grade Boron Isotopes Major Market Trends

Table 13. World Nuclear Industry Grade Boron Isotopes Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Nuclear Industry Grade Boron Isotopes Consumption by Region (2021-2026) & (Tons)

Table 15. World Nuclear Industry Grade Boron Isotopes Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Nuclear Industry Grade Boron Isotopes Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Nuclear Industry Grade Boron Isotopes Producers in 2025

Table 18. World Nuclear Industry Grade Boron Isotopes Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Nuclear Industry Grade Boron Isotopes Producers in 2025

Table 20. World Nuclear Industry Grade Boron Isotopes Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Nuclear Industry Grade Boron Isotopes Company Evaluation Quadrant

Table 22. World Nuclear Industry Grade Boron Isotopes Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Nuclear Industry Grade Boron Isotopes Production Site of Key Manufacturer

Table 24. Nuclear Industry Grade Boron Isotopes Market: Company Product Type Footprint

Table 25. Nuclear Industry Grade Boron Isotopes Market: Company Product Application Footprint

Table 26. Nuclear Industry Grade Boron Isotopes Competitive Factors

Table 27. Nuclear Industry Grade Boron Isotopes New Entrant and Capacity Expansion Plans

Table 28. Nuclear Industry Grade Boron Isotopes Mergers & Acquisitions Activity

Table 29. United States VS China Nuclear Industry Grade Boron Isotopes Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Nuclear Industry Grade Boron Isotopes Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Nuclear Industry Grade Boron Isotopes Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Nuclear Industry Grade Boron Isotopes Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Nuclear Industry Grade Boron Isotopes Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Nuclear Industry Grade Boron Isotopes Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Nuclear Industry Grade Boron Isotopes Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Nuclear Industry Grade Boron Isotopes Production Market Share (2021-2026)

Table 37. China Based Nuclear Industry Grade Boron Isotopes Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Nuclear Industry Grade Boron Isotopes Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Nuclear Industry Grade Boron Isotopes Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Nuclear Industry Grade Boron Isotopes Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers Nuclear Industry Grade Boron Isotopes Production Market Share (2021-2026)

Table 42. Rest of World Based Nuclear Industry Grade Boron Isotopes Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Nuclear Industry Grade Boron Isotopes Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Nuclear Industry Grade Boron Isotopes Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Nuclear Industry Grade Boron Isotopes Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Nuclear Industry Grade Boron Isotopes Production Market Share (2021-2026)

Table 47. World Nuclear Industry Grade Boron Isotopes Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Nuclear Industry Grade Boron Isotopes Production by Type (2021-2026) & (Tons)

Table 49. World Nuclear Industry Grade Boron Isotopes Production by Type (2027-2032) & (Tons)

Table 50. World Nuclear Industry Grade Boron Isotopes Production Value by Type (2021-2026) & (USD Million)

Table 51. World Nuclear Industry Grade Boron Isotopes Production Value by Type (2027-2032) & (USD Million)

Table 52. World Nuclear Industry Grade Boron Isotopes Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Nuclear Industry Grade Boron Isotopes Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Nuclear Industry Grade Boron Isotopes Production Value by Isotopic Abundance, (USD Million), 2021 & 2025 & 2032

Table 55. World Nuclear Industry Grade Boron Isotopes Production by Isotopic Abundance (2021-2026) & (Tons)

Table 56. World Nuclear Industry Grade Boron Isotopes Production by Isotopic Abundance (2027-2032) & (Tons)

Table 57. World Nuclear Industry Grade Boron Isotopes Production Value by Isotopic Abundance (2021-2026) & (USD Million)

Table 58. World Nuclear Industry Grade Boron Isotopes Production Value by Isotopic Abundance (2027-2032) & (USD Million)

Table 59. World Nuclear Industry Grade Boron Isotopes Average Price by Isotopic

Abundance (2021-2026) & (US\$/Ton)

Table 60. World Nuclear Industry Grade Boron Isotopes Average Price by Isotopic Abundance (2027-2032) & (US\$/Ton)

Table 61. World Nuclear Industry Grade Boron Isotopes Production Value by Technology, (USD Million), 2021 & 2025 & 2032

Table 62. World Nuclear Industry Grade Boron Isotopes Production by Technology (2021-2026) & (Tons)

Table 63. World Nuclear Industry Grade Boron Isotopes Production by Technology (2027-2032) & (Tons)

Table 64. World Nuclear Industry Grade Boron Isotopes Production Value by Technology (2021-2026) & (USD Million)

Table 65. World Nuclear Industry Grade Boron Isotopes Production Value by Technology (2027-2032) & (USD Million)

Table 66. World Nuclear Industry Grade Boron Isotopes Average Price by Technology (2021-2026) & (US\$/Ton)

Table 67. World Nuclear Industry Grade Boron Isotopes Average Price by Technology (2027-2032) & (US\$/Ton)

Table 68. World Nuclear Industry Grade Boron Isotopes Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Nuclear Industry Grade Boron Isotopes Production by Application (2021-2026) & (Tons)

Table 70. World Nuclear Industry Grade Boron Isotopes Production by Application (2027-2032) & (Tons)

Table 71. World Nuclear Industry Grade Boron Isotopes Production Value by Application (2021-2026) & (USD Million)

Table 72. World Nuclear Industry Grade Boron Isotopes Production Value by Application (2027-2032) & (USD Million)

Table 73. World Nuclear Industry Grade Boron Isotopes Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Nuclear Industry Grade Boron Isotopes Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. 3M?US? Basic Information, Manufacturing Base and Competitors

Table 76. 3M?US? Major Business

Table 77. 3M?US? Nuclear Industry Grade Boron Isotopes Product and Services

Table 78. 3M?US? Nuclear Industry Grade Boron Isotopes Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. 3M?US? Recent Developments/Updates

Table 80. 3M?US? Competitive Strengths & Weaknesses

Table 81. Stella Chemifa?JP? Basic Information, Manufacturing Base and Competitors
Table 82. Stella Chemifa?JP? Major Business
Table 83. Stella Chemifa?JP? Nuclear Industry Grade Boron Isotopes Product and Services
Table 84. Stella Chemifa?JP? Nuclear Industry Grade Boron Isotopes Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Stella Chemifa?JP? Recent Developments/Updates
Table 86. Stella Chemifa?JP? Competitive Strengths & Weaknesses
Table 87. Dofluoride?CN? Basic Information, Manufacturing Base and Competitors
Table 88. Dofluoride?CN? Major Business
Table 89. Dofluoride?CN? Nuclear Industry Grade Boron Isotopes Product and Services
Table 90. Dofluoride?CN? Nuclear Industry Grade Boron Isotopes Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Dofluoride?CN? Recent Developments/Updates
Table 92. Dofluoride?CN? Competitive Strengths & Weaknesses
Table 93. Honghao Chemical?CN? Basic Information, Manufacturing Base and Competitors
Table 94. Honghao Chemical?CN? Major Business
Table 95. Honghao Chemical?CN? Nuclear Industry Grade Boron Isotopes Product and Services
Table 96. Honghao Chemical?CN? Nuclear Industry Grade Boron Isotopes Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Honghao Chemical?CN? Recent Developments/Updates
Table 98. Honghao Chemical?CN? Competitive Strengths & Weaknesses
Table 99. China General Nuclear Power Group?CN? Basic Information, Manufacturing Base and Competitors
Table 100. China General Nuclear Power Group?CN? Major Business
Table 101. China General Nuclear Power Group?CN? Nuclear Industry Grade Boron Isotopes Product and Services
Table 102. China General Nuclear Power Group?CN? Nuclear Industry Grade Boron Isotopes Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. China General Nuclear Power Group?CN? Recent Developments/Updates
Table 104. China General Nuclear Power Group?CN? Competitive Strengths & Weaknesses
Table 105. Laimu Technology?CN? Basic Information, Manufacturing Base and

Competitors

Table 106. Laimu Technology?CN? Major Business

Table 107. Laimu Technology?CN? Nuclear Industry Grade Boron Isotopes Product and Services

Table 108. Laimu Technology?CN? Nuclear Industry Grade Boron Isotopes Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Laimu Technology?CN? Recent Developments/Updates

Table 110. Laimu Technology?CN? Competitive Strengths & Weaknesses

Table 111. Rosatom?RU? Basic Information, Manufacturing Base and Competitors

Table 112. Rosatom?RU? Major Business

Table 113. Rosatom?RU? Nuclear Industry Grade Boron Isotopes Product and Services

Table 114. Rosatom?RU? Nuclear Industry Grade Boron Isotopes Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Rosatom?RU? Recent Developments/Updates

Table 116. Rosatom?RU? Competitive Strengths & Weaknesses

Table 117. Westinghouse?US? Basic Information, Manufacturing Base and Competitors

Table 118. Westinghouse?US? Major Business

Table 119. Westinghouse?US? Nuclear Industry Grade Boron Isotopes Product and Services

Table 120. Westinghouse?US? Nuclear Industry Grade Boron Isotopes Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Westinghouse?US? Recent Developments/Updates

Table 122. Westinghouse?US? Competitive Strengths & Weaknesses

Table 123. NUKEM Isotopes GmbH?DE? Basic Information, Manufacturing Base and Competitors

Table 124. NUKEM Isotopes GmbH?DE? Major Business

Table 125. NUKEM Isotopes GmbH?DE? Nuclear Industry Grade Boron Isotopes Product and Services

Table 126. NUKEM Isotopes GmbH?DE? Nuclear Industry Grade Boron Isotopes Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. NUKEM Isotopes GmbH?DE? Recent Developments/Updates

Table 128. NUKEM Isotopes GmbH?DE? Competitive Strengths & Weaknesses

Table 129. Global Key Players of Nuclear Industry Grade Boron Isotopes Upstream (Raw Materials)

Table 130. Global Nuclear Industry Grade Boron Isotopes Typical Customers

Table 131. Nuclear Industry Grade Boron Isotopes Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Nuclear Industry Grade Boron Isotopes Picture
- Figure 2. World Nuclear Industry Grade Boron Isotopes Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Nuclear Industry Grade Boron Isotopes Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Nuclear Industry Grade Boron Isotopes Production (2021-2032) & (Tons)
- Figure 5. World Nuclear Industry Grade Boron Isotopes Average Price (2021-2032) & (US\$/Ton)
- Figure 6. World Nuclear Industry Grade Boron Isotopes Production Value Market Share by Region (2021-2032)
- Figure 7. World Nuclear Industry Grade Boron Isotopes Production Market Share by Region (2021-2032)
- Figure 8. North America Nuclear Industry Grade Boron Isotopes Production (2021-2032) & (Tons)
- Figure 9. Europe Nuclear Industry Grade Boron Isotopes Production (2021-2032) & (Tons)
- Figure 10. China Nuclear Industry Grade Boron Isotopes Production (2021-2032) & (Tons)
- Figure 11. Japan Nuclear Industry Grade Boron Isotopes Production (2021-2032) & (Tons)
- Figure 12. India Nuclear Industry Grade Boron Isotopes Production (2021-2032) & (Tons)
- Figure 13. Southeast Asia Nuclear Industry Grade Boron Isotopes Production (2021-2032) & (Tons)
- Figure 14. Nuclear Industry Grade Boron Isotopes Market Drivers
- Figure 15. Factors Affecting Demand
- Figure 16. World Nuclear Industry Grade Boron Isotopes Consumption (2021-2032) & (Tons)
- Figure 17. World Nuclear Industry Grade Boron Isotopes Consumption Market Share by Region (2021-2032)
- Figure 18. United States Nuclear Industry Grade Boron Isotopes Consumption (2021-2032) & (Tons)
- Figure 19. China Nuclear Industry Grade Boron Isotopes Consumption (2021-2032) & (Tons)

Figure 20. Europe Nuclear Industry Grade Boron Isotopes Consumption (2021-2032) & (Tons)

Figure 21. Japan Nuclear Industry Grade Boron Isotopes Consumption (2021-2032) & (Tons)

Figure 22. South Korea Nuclear Industry Grade Boron Isotopes Consumption (2021-2032) & (Tons)

Figure 23. ASEAN Nuclear Industry Grade Boron Isotopes Consumption (2021-2032) & (Tons)

Figure 24. India Nuclear Industry Grade Boron Isotopes Consumption (2021-2032) & (Tons)

Figure 25. Producer Shipments of Nuclear Industry Grade Boron Isotopes by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Nuclear Industry Grade Boron Isotopes Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Nuclear Industry Grade Boron Isotopes Markets in 2025

Figure 28. United States VS China: Nuclear Industry Grade Boron Isotopes Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Nuclear Industry Grade Boron Isotopes Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Nuclear Industry Grade Boron Isotopes Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Nuclear Industry Grade Boron Isotopes Production Market Share 2025

Figure 32. China Based Manufacturers Nuclear Industry Grade Boron Isotopes Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Nuclear Industry Grade Boron Isotopes Production Market Share 2025

Figure 34. World Nuclear Industry Grade Boron Isotopes Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Nuclear Industry Grade Boron Isotopes Production Value Market Share by Type in 2025

Figure 36. Liquid

Figure 37. Solid

Figure 38. Gaseous

Figure 39. World Nuclear Industry Grade Boron Isotopes Production Market Share by Type (2021-2032)

Figure 40. World Nuclear Industry Grade Boron Isotopes Production Value Market Share by Type (2021-2032)

Figure 41. World Nuclear Industry Grade Boron Isotopes Average Price by Type (2021-2032) & (US\$/Ton)

Figure 42. World Nuclear Industry Grade Boron Isotopes Production Value by Isotopic Abundance, (USD Million), 2021 & 2025 & 2032

Figure 43. World Nuclear Industry Grade Boron Isotopes Production Value Market Share by Isotopic Abundance in 2025

Figure 44. Boron-10

Figure 45. Boron-11

Figure 46. Others

Figure 47. World Nuclear Industry Grade Boron Isotopes Production Market Share by Isotopic Abundance (2021-2032)

Figure 48. World Nuclear Industry Grade Boron Isotopes Production Value Market Share by Isotopic Abundance (2021-2032)

Figure 49. World Nuclear Industry Grade Boron Isotopes Average Price by Isotopic Abundance (2021-2032) & (US\$/Ton)

Figure 50. World Nuclear Industry Grade Boron Isotopes Production Value by Technology, (USD Million), 2021 & 2025 & 2032

Figure 51. World Nuclear Industry Grade Boron Isotopes Production Value Market Share by Technology in 2025

Figure 52. Low-temperature Distillation Method

Figure 53. Chemical Exchange Method

Figure 54. World Nuclear Industry Grade Boron Isotopes Production Market Share by Technology (2021-2032)

Figure 55. World Nuclear Industry Grade Boron Isotopes Production Value Market Share by Technology (2021-2032)

Figure 56. World Nuclear Industry Grade Boron Isotopes Average Price by Technology (2021-2032) & (US\$/Ton)

Figure 57. World Nuclear Industry Grade Boron Isotopes Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Nuclear Industry Grade Boron Isotopes Production Value Market Share by Application in 2025

Figure 59. Nuclear Power

Figure 60. Semiconductors

Figure 61. Others

Figure 62. World Nuclear Industry Grade Boron Isotopes Production Market Share by Application (2021-2032)

Figure 63. World Nuclear Industry Grade Boron Isotopes Production Value Market Share by Application (2021-2032)

Figure 64. World Nuclear Industry Grade Boron Isotopes Average Price by Application

(2021-2032) & (US\$/Ton)

Figure 65. Nuclear Industry Grade Boron Isotopes Industry Chain

Figure 66. Nuclear Industry Grade Boron Isotopes Procurement Model

Figure 67. Nuclear Industry Grade Boron Isotopes Sales Model

Figure 68. Nuclear Industry Grade Boron Isotopes Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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