

Global Boron-based Neutron Absorber Material Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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Abstracts

According to our (Global Info Research) latest study, the global Boron-based Neutron Absorber Material market size was valued at USD 174.1 million in 2022 and is forecast to a readjusted size of USD 247.4 million by 2029 with a CAGR of 5.1% during review period.

The neutron absorber materials are required to absorb neutrons without forming long-lived radionuclides during the reactor operations. The most commonly used materials are boron– stainless steel, boron carbide, and Boron Carbide-Aluminum Composite. They are used in spent nuclear fuel transportation and storage etc field.

The Global Info Research report includes an overview of the development of the Boron-based Neutron Absorber Material industry chain, the market status of Spent Fuel Storage Racks (Boron-Stainless Steel, Boron Carbide), Storage and Transportation Casks (Boron-Stainless Steel, Boron Carbide), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Boron-based Neutron Absorber Material.

Regionally, the report analyzes the Boron-based Neutron Absorber Material markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Boron-based Neutron Absorber Material market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Boron-based Neutron Absorber Material market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Boron-based Neutron Absorber Material industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Tons), revenue generated, and market share of different by Type (e.g., Boron-Stainless Steel, Boron Carbide).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Boron-based Neutron Absorber Material market.

Regional Analysis: The report involves examining the Boron-based Neutron Absorber Material market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Boron-based Neutron Absorber Material market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Boron-based Neutron Absorber Material:

Company Analysis: Report covers individual Boron-based Neutron Absorber Material manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Boron-based Neutron Absorber Material This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Spent Fuel Storage Racks, Storage and Transportation Casks).

Technology Analysis: Report covers specific technologies relevant to Boron-based Neutron Absorber Material. It assesses the current state, advancements, and potential future developments in Boron-based Neutron Absorber Material areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Boron-based Neutron Absorber Material market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Boron-based Neutron Absorber Material market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Boron-Stainless Steel

Boron Carbide

Boron Carbide-Aluminum Composite

Others

Market segment by Application

Spent Fuel Storage Racks

Storage and Transportation Casks

Others

Major players covered

3M

Holtec International

Nikkeikin Aluminium Core Technology Company

Rochling

Nippon Yakin Kogyo

Antai-heyuan Nuclear Energy Technology & Materials

MillenniTEK

Ramon Science and Technology

Lemer Pax

Hangzhou Taofeilun

Stanford Advanced Materials (Oceania International)

Jiangsu Hailong Nuclear Technology

Trumony Aluminum

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

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

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

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

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

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

Chapter 1, to describe Boron-based Neutron Absorber Material product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Boron-based Neutron Absorber Material, with price, sales, revenue and global market share of Boron-based Neutron Absorber Material from 2018 to 2023.

Chapter 3, the Boron-based Neutron Absorber Material competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Boron-based Neutron Absorber Material breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2017 to 2022. and Boron-based Neutron Absorber Material market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

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 Boron-based Neutron Absorber Material.

Chapter 14 and 15, to describe Boron-based Neutron Absorber Material sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

- 1.1 Product Overview and Scope of Boron-based Neutron Absorber Material
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
 - 1.3.1 Overview: Global Boron-based Neutron Absorber Material Consumption Value by Type: 2018 Versus 2022 Versus 2029
 - 1.3.2 Boron-Stainless Steel
 - 1.3.3 Boron Carbide
 - 1.3.4 Boron Carbide-Aluminum Composite
 - 1.3.5 Others
- 1.4 Market Analysis by Application
 - 1.4.1 Overview: Global Boron-based Neutron Absorber Material Consumption Value by Application: 2018 Versus 2022 Versus 2029
 - 1.4.2 Spent Fuel Storage Racks
 - 1.4.3 Storage and Transportation Casks
 - 1.4.4 Others
- 1.5 Global Boron-based Neutron Absorber Material Market Size & Forecast
 - 1.5.1 Global Boron-based Neutron Absorber Material Consumption Value (2018 & 2022 & 2029)
 - 1.5.2 Global Boron-based Neutron Absorber Material Sales Quantity (2018-2029)
 - 1.5.3 Global Boron-based Neutron Absorber Material Average Price (2018-2029)

2 MANUFACTURERS PROFILES

- 2.1 3M
 - 2.1.1 3M Details
 - 2.1.2 3M Major Business
 - 2.1.3 3M Boron-based Neutron Absorber Material Product and Services
 - 2.1.4 3M Boron-based Neutron Absorber Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.1.5 3M Recent Developments/Updates
- 2.2 Holtec International
 - 2.2.1 Holtec International Details
 - 2.2.2 Holtec International Major Business
 - 2.2.3 Holtec International Boron-based Neutron Absorber Material Product and Services

2.2.4 Holtec International Boron-based Neutron Absorber Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.2.5 Holtec International Recent Developments/Updates

2.3 Nikkeikin Aluminium Core Technology Company

2.3.1 Nikkeikin Aluminium Core Technology Company Details

2.3.2 Nikkeikin Aluminium Core Technology Company Major Business

2.3.3 Nikkeikin Aluminium Core Technology Company Boron-based Neutron Absorber Material Product and Services

2.3.4 Nikkeikin Aluminium Core Technology Company Boron-based Neutron Absorber Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.3.5 Nikkeikin Aluminium Core Technology Company Recent Developments/Updates

2.4 Rochling

2.4.1 Rochling Details

2.4.2 Rochling Major Business

2.4.3 Rochling Boron-based Neutron Absorber Material Product and Services

2.4.4 Rochling Boron-based Neutron Absorber Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.4.5 Rochling Recent Developments/Updates

2.5 Nippon Yakin Kogyo

2.5.1 Nippon Yakin Kogyo Details

2.5.2 Nippon Yakin Kogyo Major Business

2.5.3 Nippon Yakin Kogyo Boron-based Neutron Absorber Material Product and Services

2.5.4 Nippon Yakin Kogyo Boron-based Neutron Absorber Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.5.5 Nippon Yakin Kogyo Recent Developments/Updates

2.6 Antai-heyuan Nuclear Energy Technology & Materials

2.6.1 Antai-heyuan Nuclear Energy Technology & Materials Details

2.6.2 Antai-heyuan Nuclear Energy Technology & Materials Major Business

2.6.3 Antai-heyuan Nuclear Energy Technology & Materials Boron-based Neutron Absorber Material Product and Services

2.6.4 Antai-heyuan Nuclear Energy Technology & Materials Boron-based Neutron Absorber Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.6.5 Antai-heyuan Nuclear Energy Technology & Materials Recent Developments/Updates

2.7 MillenniTEK

2.7.1 MillenniTEK Details

- 2.7.2 MillenniTEK Major Business
- 2.7.3 MillenniTEK Boron-based Neutron Absorber Material Product and Services
- 2.7.4 MillenniTEK Boron-based Neutron Absorber Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
- 2.7.5 MillenniTEK Recent Developments/Updates
- 2.8 Ramon Science and Technology
 - 2.8.1 Ramon Science and Technology Details
 - 2.8.2 Ramon Science and Technology Major Business
 - 2.8.3 Ramon Science and Technology Boron-based Neutron Absorber Material Product and Services
 - 2.8.4 Ramon Science and Technology Boron-based Neutron Absorber Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.8.5 Ramon Science and Technology Recent Developments/Updates
- 2.9 Lemer Pax
 - 2.9.1 Lemer Pax Details
 - 2.9.2 Lemer Pax Major Business
 - 2.9.3 Lemer Pax Boron-based Neutron Absorber Material Product and Services
 - 2.9.4 Lemer Pax Boron-based Neutron Absorber Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.9.5 Lemer Pax Recent Developments/Updates
- 2.10 Hangzhou Taofeilun
 - 2.10.1 Hangzhou Taofeilun Details
 - 2.10.2 Hangzhou Taofeilun Major Business
 - 2.10.3 Hangzhou Taofeilun Boron-based Neutron Absorber Material Product and Services
 - 2.10.4 Hangzhou Taofeilun Boron-based Neutron Absorber Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.10.5 Hangzhou Taofeilun Recent Developments/Updates
- 2.11 Stanford Advanced Materials (Oceania International)
 - 2.11.1 Stanford Advanced Materials (Oceania International) Details
 - 2.11.2 Stanford Advanced Materials (Oceania International) Major Business
 - 2.11.3 Stanford Advanced Materials (Oceania International) Boron-based Neutron Absorber Material Product and Services
 - 2.11.4 Stanford Advanced Materials (Oceania International) Boron-based Neutron Absorber Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.11.5 Stanford Advanced Materials (Oceania International) Recent Developments/Updates
- 2.12 Jiangsu Hailong Nuclear Technology

- 2.12.1 Jiangsu Hailong Nuclear Technology Details
- 2.12.2 Jiangsu Hailong Nuclear Technology Major Business
- 2.12.3 Jiangsu Hailong Nuclear Technology Boron-based Neutron Absorber Material Product and Services
- 2.12.4 Jiangsu Hailong Nuclear Technology Boron-based Neutron Absorber Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
- 2.12.5 Jiangsu Hailong Nuclear Technology Recent Developments/Updates
- 2.13 Trumony Aluminum
 - 2.13.1 Trumony Aluminum Details
 - 2.13.2 Trumony Aluminum Major Business
 - 2.13.3 Trumony Aluminum Boron-based Neutron Absorber Material Product and Services
 - 2.13.4 Trumony Aluminum Boron-based Neutron Absorber Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.13.5 Trumony Aluminum Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: BORON-BASED NEUTRON ABSORBER MATERIAL BY MANUFACTURER

- 3.1 Global Boron-based Neutron Absorber Material Sales Quantity by Manufacturer (2018-2023)
- 3.2 Global Boron-based Neutron Absorber Material Revenue by Manufacturer (2018-2023)
- 3.3 Global Boron-based Neutron Absorber Material Average Price by Manufacturer (2018-2023)
- 3.4 Market Share Analysis (2022)
 - 3.4.1 Producer Shipments of Boron-based Neutron Absorber Material by Manufacturer Revenue (\$MM) and Market Share (%): 2022
 - 3.4.2 Top 3 Boron-based Neutron Absorber Material Manufacturer Market Share in 2022
 - 3.4.2 Top 6 Boron-based Neutron Absorber Material Manufacturer Market Share in 2022
- 3.5 Boron-based Neutron Absorber Material Market: Overall Company Footprint Analysis
 - 3.5.1 Boron-based Neutron Absorber Material Market: Region Footprint
 - 3.5.2 Boron-based Neutron Absorber Material Market: Company Product Type Footprint
 - 3.5.3 Boron-based Neutron Absorber Material 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 Boron-based Neutron Absorber Material Market Size by Region
 - 4.1.1 Global Boron-based Neutron Absorber Material Sales Quantity by Region (2018-2029)
 - 4.1.2 Global Boron-based Neutron Absorber Material Consumption Value by Region (2018-2029)
 - 4.1.3 Global Boron-based Neutron Absorber Material Average Price by Region (2018-2029)
- 4.2 North America Boron-based Neutron Absorber Material Consumption Value (2018-2029)
- 4.3 Europe Boron-based Neutron Absorber Material Consumption Value (2018-2029)
- 4.4 Asia-Pacific Boron-based Neutron Absorber Material Consumption Value (2018-2029)
- 4.5 South America Boron-based Neutron Absorber Material Consumption Value (2018-2029)
- 4.6 Middle East and Africa Boron-based Neutron Absorber Material Consumption Value (2018-2029)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Boron-based Neutron Absorber Material Sales Quantity by Type (2018-2029)
- 5.2 Global Boron-based Neutron Absorber Material Consumption Value by Type (2018-2029)
- 5.3 Global Boron-based Neutron Absorber Material Average Price by Type (2018-2029)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Boron-based Neutron Absorber Material Sales Quantity by Application (2018-2029)
- 6.2 Global Boron-based Neutron Absorber Material Consumption Value by Application (2018-2029)
- 6.3 Global Boron-based Neutron Absorber Material Average Price by Application (2018-2029)

7 NORTH AMERICA

7.1 North America Boron-based Neutron Absorber Material Sales Quantity by Type (2018-2029)

7.2 North America Boron-based Neutron Absorber Material Sales Quantity by Application (2018-2029)

7.3 North America Boron-based Neutron Absorber Material Market Size by Country

7.3.1 North America Boron-based Neutron Absorber Material Sales Quantity by Country (2018-2029)

7.3.2 North America Boron-based Neutron Absorber Material Consumption Value by Country (2018-2029)

7.3.3 United States Market Size and Forecast (2018-2029)

7.3.4 Canada Market Size and Forecast (2018-2029)

7.3.5 Mexico Market Size and Forecast (2018-2029)

8 EUROPE

8.1 Europe Boron-based Neutron Absorber Material Sales Quantity by Type (2018-2029)

8.2 Europe Boron-based Neutron Absorber Material Sales Quantity by Application (2018-2029)

8.3 Europe Boron-based Neutron Absorber Material Market Size by Country

8.3.1 Europe Boron-based Neutron Absorber Material Sales Quantity by Country (2018-2029)

8.3.2 Europe Boron-based Neutron Absorber Material Consumption Value by Country (2018-2029)

8.3.3 Germany Market Size and Forecast (2018-2029)

8.3.4 France Market Size and Forecast (2018-2029)

8.3.5 United Kingdom Market Size and Forecast (2018-2029)

8.3.6 Russia Market Size and Forecast (2018-2029)

8.3.7 Italy Market Size and Forecast (2018-2029)

9 ASIA-PACIFIC

9.1 Asia-Pacific Boron-based Neutron Absorber Material Sales Quantity by Type (2018-2029)

9.2 Asia-Pacific Boron-based Neutron Absorber Material Sales Quantity by Application (2018-2029)

9.3 Asia-Pacific Boron-based Neutron Absorber Material Market Size by Region

9.3.1 Asia-Pacific Boron-based Neutron Absorber Material Sales Quantity by Region

(2018-2029)

9.3.2 Asia-Pacific Boron-based Neutron Absorber Material Consumption Value by Region (2018-2029)

9.3.3 China Market Size and Forecast (2018-2029)

9.3.4 Japan Market Size and Forecast (2018-2029)

9.3.5 Korea Market Size and Forecast (2018-2029)

9.3.6 India Market Size and Forecast (2018-2029)

9.3.7 Southeast Asia Market Size and Forecast (2018-2029)

9.3.8 Australia Market Size and Forecast (2018-2029)

10 SOUTH AMERICA

10.1 South America Boron-based Neutron Absorber Material Sales Quantity by Type (2018-2029)

10.2 South America Boron-based Neutron Absorber Material Sales Quantity by Application (2018-2029)

10.3 South America Boron-based Neutron Absorber Material Market Size by Country

10.3.1 South America Boron-based Neutron Absorber Material Sales Quantity by Country (2018-2029)

10.3.2 South America Boron-based Neutron Absorber Material Consumption Value by Country (2018-2029)

10.3.3 Brazil Market Size and Forecast (2018-2029)

10.3.4 Argentina Market Size and Forecast (2018-2029)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Boron-based Neutron Absorber Material Sales Quantity by Type (2018-2029)

11.2 Middle East & Africa Boron-based Neutron Absorber Material Sales Quantity by Application (2018-2029)

11.3 Middle East & Africa Boron-based Neutron Absorber Material Market Size by Country

11.3.1 Middle East & Africa Boron-based Neutron Absorber Material Sales Quantity by Country (2018-2029)

11.3.2 Middle East & Africa Boron-based Neutron Absorber Material Consumption Value by Country (2018-2029)

11.3.3 Turkey Market Size and Forecast (2018-2029)

11.3.4 Egypt Market Size and Forecast (2018-2029)

11.3.5 Saudi Arabia Market Size and Forecast (2018-2029)

11.3.6 South Africa Market Size and Forecast (2018-2029)

12 MARKET DYNAMICS

- 12.1 Boron-based Neutron Absorber Material Market Drivers
- 12.2 Boron-based Neutron Absorber Material Market Restraints
- 12.3 Boron-based Neutron Absorber Material 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 Boron-based Neutron Absorber Material and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Boron-based Neutron Absorber Material
- 13.3 Boron-based Neutron Absorber Material Production Process
- 13.4 Boron-based Neutron Absorber Material Industrial Chain

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Boron-based Neutron Absorber Material Typical Distributors
- 14.3 Boron-based Neutron Absorber Material 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 Boron-based Neutron Absorber Material Consumption Value by Type, (USD Million), 2018 & 2022 & 2029

Table 2. Global Boron-based Neutron Absorber Material Consumption Value by Application, (USD Million), 2018 & 2022 & 2029

Table 3. 3M Basic Information, Manufacturing Base and Competitors

Table 4. 3M Major Business

Table 5. 3M Boron-based Neutron Absorber Material Product and Services

Table 6. 3M Boron-based Neutron Absorber Material Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 7. 3M Recent Developments/Updates

Table 8. Holtec International Basic Information, Manufacturing Base and Competitors

Table 9. Holtec International Major Business

Table 10. Holtec International Boron-based Neutron Absorber Material Product and Services

Table 11. Holtec International Boron-based Neutron Absorber Material Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 12. Holtec International Recent Developments/Updates

Table 13. Nikkeikin Aluminium Core Technology Company Basic Information, Manufacturing Base and Competitors

Table 14. Nikkeikin Aluminium Core Technology Company Major Business

Table 15. Nikkeikin Aluminium Core Technology Company Boron-based Neutron Absorber Material Product and Services

Table 16. Nikkeikin Aluminium Core Technology Company Boron-based Neutron Absorber Material Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 17. Nikkeikin Aluminium Core Technology Company Recent Developments/Updates

Table 18. Rochling Basic Information, Manufacturing Base and Competitors

Table 19. Rochling Major Business

Table 20. Rochling Boron-based Neutron Absorber Material Product and Services

Table 21. Rochling Boron-based Neutron Absorber Material Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 22. Rochling Recent Developments/Updates

Table 23. Nippon Yakin Kogyo Basic Information, Manufacturing Base and Competitors

Table 24. Nippon Yakin Kogyo Major Business

Table 25. Nippon Yakin Kogyo Boron-based Neutron Absorber Material Product and Services

Table 26. Nippon Yakin Kogyo Boron-based Neutron Absorber Material Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 27. Nippon Yakin Kogyo Recent Developments/Updates

Table 28. Antai-heyuan Nuclear Energy Technology & Materials Basic Information, Manufacturing Base and Competitors

Table 29. Antai-heyuan Nuclear Energy Technology & Materials Major Business

Table 30. Antai-heyuan Nuclear Energy Technology & Materials Boron-based Neutron Absorber Material Product and Services

Table 31. Antai-heyuan Nuclear Energy Technology & Materials Boron-based Neutron Absorber Material Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 32. Antai-heyuan Nuclear Energy Technology & Materials Recent Developments/Updates

Table 33. MillenniTEK Basic Information, Manufacturing Base and Competitors

Table 34. MillenniTEK Major Business

Table 35. MillenniTEK Boron-based Neutron Absorber Material Product and Services

Table 36. MillenniTEK Boron-based Neutron Absorber Material Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 37. MillenniTEK Recent Developments/Updates

Table 38. Ramon Science and Technology Basic Information, Manufacturing Base and Competitors

Table 39. Ramon Science and Technology Major Business

Table 40. Ramon Science and Technology Boron-based Neutron Absorber Material Product and Services

Table 41. Ramon Science and Technology Boron-based Neutron Absorber Material Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 42. Ramon Science and Technology Recent Developments/Updates

Table 43. Lemer Pax Basic Information, Manufacturing Base and Competitors

Table 44. Lemer Pax Major Business

Table 45. Lemer Pax Boron-based Neutron Absorber Material Product and Services

Table 46. Lemer Pax Boron-based Neutron Absorber Material Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share

(2018-2023)

Table 47. Lemer Pax Recent Developments/Updates

Table 48. Hangzhou Taofeilun Basic Information, Manufacturing Base and Competitors

Table 49. Hangzhou Taofeilun Major Business

Table 50. Hangzhou Taofeilun Boron-based Neutron Absorber Material Product and Services

Table 51. Hangzhou Taofeilun Boron-based Neutron Absorber Material Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 52. Hangzhou Taofeilun Recent Developments/Updates

Table 53. Stanford Advanced Materials (Oceania International) Basic Information, Manufacturing Base and Competitors

Table 54. Stanford Advanced Materials (Oceania International) Major Business

Table 55. Stanford Advanced Materials (Oceania International) Boron-based Neutron Absorber Material Product and Services

Table 56. Stanford Advanced Materials (Oceania International) Boron-based Neutron Absorber Material Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 57. Stanford Advanced Materials (Oceania International) Recent Developments/Updates

Table 58. Jiangsu Hailong Nuclear Technology Basic Information, Manufacturing Base and Competitors

Table 59. Jiangsu Hailong Nuclear Technology Major Business

Table 60. Jiangsu Hailong Nuclear Technology Boron-based Neutron Absorber Material Product and Services

Table 61. Jiangsu Hailong Nuclear Technology Boron-based Neutron Absorber Material Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 62. Jiangsu Hailong Nuclear Technology Recent Developments/Updates

Table 63. Trumony Aluminum Basic Information, Manufacturing Base and Competitors

Table 64. Trumony Aluminum Major Business

Table 65. Trumony Aluminum Boron-based Neutron Absorber Material Product and Services

Table 66. Trumony Aluminum Boron-based Neutron Absorber Material Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 67. Trumony Aluminum Recent Developments/Updates

Table 68. Global Boron-based Neutron Absorber Material Sales Quantity by Manufacturer (2018-2023) & (Tons)

Table 69. Global Boron-based Neutron Absorber Material Revenue by Manufacturer (2018-2023) & (USD Million)

Table 70. Global Boron-based Neutron Absorber Material Average Price by Manufacturer (2018-2023) & (US\$/Ton)

Table 71. Market Position of Manufacturers in Boron-based Neutron Absorber Material, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2022

Table 72. Head Office and Boron-based Neutron Absorber Material Production Site of Key Manufacturer

Table 73. Boron-based Neutron Absorber Material Market: Company Product Type Footprint

Table 74. Boron-based Neutron Absorber Material Market: Company Product Application Footprint

Table 75. Boron-based Neutron Absorber Material New Market Entrants and Barriers to Market Entry

Table 76. Boron-based Neutron Absorber Material Mergers, Acquisition, Agreements, and Collaborations

Table 77. Global Boron-based Neutron Absorber Material Sales Quantity by Region (2018-2023) & (Tons)

Table 78. Global Boron-based Neutron Absorber Material Sales Quantity by Region (2024-2029) & (Tons)

Table 79. Global Boron-based Neutron Absorber Material Consumption Value by Region (2018-2023) & (USD Million)

Table 80. Global Boron-based Neutron Absorber Material Consumption Value by Region (2024-2029) & (USD Million)

Table 81. Global Boron-based Neutron Absorber Material Average Price by Region (2018-2023) & (US\$/Ton)

Table 82. Global Boron-based Neutron Absorber Material Average Price by Region (2024-2029) & (US\$/Ton)

Table 83. Global Boron-based Neutron Absorber Material Sales Quantity by Type (2018-2023) & (Tons)

Table 84. Global Boron-based Neutron Absorber Material Sales Quantity by Type (2024-2029) & (Tons)

Table 85. Global Boron-based Neutron Absorber Material Consumption Value by Type (2018-2023) & (USD Million)

Table 86. Global Boron-based Neutron Absorber Material Consumption Value by Type (2024-2029) & (USD Million)

Table 87. Global Boron-based Neutron Absorber Material Average Price by Type (2018-2023) & (US\$/Ton)

Table 88. Global Boron-based Neutron Absorber Material Average Price by Type

(2024-2029) & (US\$/Ton)

Table 89. Global Boron-based Neutron Absorber Material Sales Quantity by Application (2018-2023) & (Tons)

Table 90. Global Boron-based Neutron Absorber Material Sales Quantity by Application (2024-2029) & (Tons)

Table 91. Global Boron-based Neutron Absorber Material Consumption Value by Application (2018-2023) & (USD Million)

Table 92. Global Boron-based Neutron Absorber Material Consumption Value by Application (2024-2029) & (USD Million)

Table 93. Global Boron-based Neutron Absorber Material Average Price by Application (2018-2023) & (US\$/Ton)

Table 94. Global Boron-based Neutron Absorber Material Average Price by Application (2024-2029) & (US\$/Ton)

Table 95. North America Boron-based Neutron Absorber Material Sales Quantity by Type (2018-2023) & (Tons)

Table 96. North America Boron-based Neutron Absorber Material Sales Quantity by Type (2024-2029) & (Tons)

Table 97. North America Boron-based Neutron Absorber Material Sales Quantity by Application (2018-2023) & (Tons)

Table 98. North America Boron-based Neutron Absorber Material Sales Quantity by Application (2024-2029) & (Tons)

Table 99. North America Boron-based Neutron Absorber Material Sales Quantity by Country (2018-2023) & (Tons)

Table 100. North America Boron-based Neutron Absorber Material Sales Quantity by Country (2024-2029) & (Tons)

Table 101. North America Boron-based Neutron Absorber Material Consumption Value by Country (2018-2023) & (USD Million)

Table 102. North America Boron-based Neutron Absorber Material Consumption Value by Country (2024-2029) & (USD Million)

Table 103. Europe Boron-based Neutron Absorber Material Sales Quantity by Type (2018-2023) & (Tons)

Table 104. Europe Boron-based Neutron Absorber Material Sales Quantity by Type (2024-2029) & (Tons)

Table 105. Europe Boron-based Neutron Absorber Material Sales Quantity by Application (2018-2023) & (Tons)

Table 106. Europe Boron-based Neutron Absorber Material Sales Quantity by Application (2024-2029) & (Tons)

Table 107. Europe Boron-based Neutron Absorber Material Sales Quantity by Country (2018-2023) & (Tons)

Table 108. Europe Boron-based Neutron Absorber Material Sales Quantity by Country (2024-2029) & (Tons)

Table 109. Europe Boron-based Neutron Absorber Material Consumption Value by Country (2018-2023) & (USD Million)

Table 110. Europe Boron-based Neutron Absorber Material Consumption Value by Country (2024-2029) & (USD Million)

Table 111. Asia-Pacific Boron-based Neutron Absorber Material Sales Quantity by Type (2018-2023) & (Tons)

Table 112. Asia-Pacific Boron-based Neutron Absorber Material Sales Quantity by Type (2024-2029) & (Tons)

Table 113. Asia-Pacific Boron-based Neutron Absorber Material Sales Quantity by Application (2018-2023) & (Tons)

Table 114. Asia-Pacific Boron-based Neutron Absorber Material Sales Quantity by Application (2024-2029) & (Tons)

Table 115. Asia-Pacific Boron-based Neutron Absorber Material Sales Quantity by Region (2018-2023) & (Tons)

Table 116. Asia-Pacific Boron-based Neutron Absorber Material Sales Quantity by Region (2024-2029) & (Tons)

Table 117. Asia-Pacific Boron-based Neutron Absorber Material Consumption Value by Region (2018-2023) & (USD Million)

Table 118. Asia-Pacific Boron-based Neutron Absorber Material Consumption Value by Region (2024-2029) & (USD Million)

Table 119. South America Boron-based Neutron Absorber Material Sales Quantity by Type (2018-2023) & (Tons)

Table 120. South America Boron-based Neutron Absorber Material Sales Quantity by Type (2024-2029) & (Tons)

Table 121. South America Boron-based Neutron Absorber Material Sales Quantity by Application (2018-2023) & (Tons)

Table 122. South America Boron-based Neutron Absorber Material Sales Quantity by Application (2024-2029) & (Tons)

Table 123. South America Boron-based Neutron Absorber Material Sales Quantity by Country (2018-2023) & (Tons)

Table 124. South America Boron-based Neutron Absorber Material Sales Quantity by Country (2024-2029) & (Tons)

Table 125. South America Boron-based Neutron Absorber Material Consumption Value by Country (2018-2023) & (USD Million)

Table 126. South America Boron-based Neutron Absorber Material Consumption Value by Country (2024-2029) & (USD Million)

Table 127. Middle East & Africa Boron-based Neutron Absorber Material Sales Quantity

by Type (2018-2023) & (Tons)

Table 128. Middle East & Africa Boron-based Neutron Absorber Material Sales Quantity by Type (2024-2029) & (Tons)

Table 129. Middle East & Africa Boron-based Neutron Absorber Material Sales Quantity by Application (2018-2023) & (Tons)

Table 130. Middle East & Africa Boron-based Neutron Absorber Material Sales Quantity by Application (2024-2029) & (Tons)

Table 131. Middle East & Africa Boron-based Neutron Absorber Material Sales Quantity by Region (2018-2023) & (Tons)

Table 132. Middle East & Africa Boron-based Neutron Absorber Material Sales Quantity by Region (2024-2029) & (Tons)

Table 133. Middle East & Africa Boron-based Neutron Absorber Material Consumption Value by Region (2018-2023) & (USD Million)

Table 134. Middle East & Africa Boron-based Neutron Absorber Material Consumption Value by Region (2024-2029) & (USD Million)

Table 135. Boron-based Neutron Absorber Material Raw Material

Table 136. Key Manufacturers of Boron-based Neutron Absorber Material Raw Materials

Table 137. Boron-based Neutron Absorber Material Typical Distributors

Table 138. Boron-based Neutron Absorber Material Typical Customers

LIST OF FIGURE

s

Figure 1. Boron-based Neutron Absorber Material Picture

Figure 2. Global Boron-based Neutron Absorber Material Consumption Value by Type, (USD Million), 2018 & 2022 & 2029

Figure 3. Global Boron-based Neutron Absorber Material Consumption Value Market Share by Type in 2022

Figure 4. Boron-Stainless Steel Examples

Figure 5. Boron Carbide Examples

Figure 6. Boron Carbide-Aluminum Composite Examples

Figure 7. Others Examples

Figure 8. Global Boron-based Neutron Absorber Material Consumption Value by Application, (USD Million), 2018 & 2022 & 2029

Figure 9. Global Boron-based Neutron Absorber Material Consumption Value Market Share by Application in 2022

Figure 10. Spent Fuel Storage Racks Examples

Figure 11. Storage and Transportation Casks Examples

Figure 12. Others Examples

Figure 13. Global Boron-based Neutron Absorber Material Consumption Value, (USD Million): 2018 & 2022 & 2029

Figure 14. Global Boron-based Neutron Absorber Material Consumption Value and Forecast (2018-2029) & (USD Million)

Figure 15. Global Boron-based Neutron Absorber Material Sales Quantity (2018-2029) & (Tons)

Figure 16. Global Boron-based Neutron Absorber Material Average Price (2018-2029) & (US\$/Ton)

Figure 17. Global Boron-based Neutron Absorber Material Sales Quantity Market Share by Manufacturer in 2022

Figure 18. Global Boron-based Neutron Absorber Material Consumption Value Market Share by Manufacturer in 2022

Figure 19. Producer Shipments of Boron-based Neutron Absorber Material by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2021

Figure 20. Top 3 Boron-based Neutron Absorber Material Manufacturer (Consumption Value) Market Share in 2022

Figure 21. Top 6 Boron-based Neutron Absorber Material Manufacturer (Consumption Value) Market Share in 2022

Figure 22. Global Boron-based Neutron Absorber Material Sales Quantity Market Share by Region (2018-2029)

Figure 23. Global Boron-based Neutron Absorber Material Consumption Value Market Share by Region (2018-2029)

Figure 24. North America Boron-based Neutron Absorber Material Consumption Value (2018-2029) & (USD Million)

Figure 25. Europe Boron-based Neutron Absorber Material Consumption Value (2018-2029) & (USD Million)

Figure 26. Asia-Pacific Boron-based Neutron Absorber Material Consumption Value (2018-2029) & (USD Million)

Figure 27. South America Boron-based Neutron Absorber Material Consumption Value (2018-2029) & (USD Million)

Figure 28. Middle East & Africa Boron-based Neutron Absorber Material Consumption Value (2018-2029) & (USD Million)

Figure 29. Global Boron-based Neutron Absorber Material Sales Quantity Market Share by Type (2018-2029)

Figure 30. Global Boron-based Neutron Absorber Material Consumption Value Market Share by Type (2018-2029)

Figure 31. Global Boron-based Neutron Absorber Material Average Price by Type (2018-2029) & (US\$/Ton)

Figure 32. Global Boron-based Neutron Absorber Material Sales Quantity Market Share

by Application (2018-2029)

Figure 33. Global Boron-based Neutron Absorber Material Consumption Value Market Share by Application (2018-2029)

Figure 34. Global Boron-based Neutron Absorber Material Average Price by Application (2018-2029) & (US\$/Ton)

Figure 35. North America Boron-based Neutron Absorber Material Sales Quantity Market Share by Type (2018-2029)

Figure 36. North America Boron-based Neutron Absorber Material Sales Quantity Market Share by Application (2018-2029)

Figure 37. North America Boron-based Neutron Absorber Material Sales Quantity Market Share by Country (2018-2029)

Figure 38. North America Boron-based Neutron Absorber Material Consumption Value Market Share by Country (2018-2029)

Figure 39. United States Boron-based Neutron Absorber Material Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 40. Canada Boron-based Neutron Absorber Material Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 41. Mexico Boron-based Neutron Absorber Material Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 42. Europe Boron-based Neutron Absorber Material Sales Quantity Market Share by Type (2018-2029)

Figure 43. Europe Boron-based Neutron Absorber Material Sales Quantity Market Share by Application (2018-2029)

Figure 44. Europe Boron-based Neutron Absorber Material Sales Quantity Market Share by Country (2018-2029)

Figure 45. Europe Boron-based Neutron Absorber Material Consumption Value Market Share by Country (2018-2029)

Figure 46. Germany Boron-based Neutron Absorber Material Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 47. France Boron-based Neutron Absorber Material Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 48. United Kingdom Boron-based Neutron Absorber Material Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 49. Russia Boron-based Neutron Absorber Material Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 50. Italy Boron-based Neutron Absorber Material Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 51. Asia-Pacific Boron-based Neutron Absorber Material Sales Quantity Market Share by Type (2018-2029)

Figure 52. Asia-Pacific Boron-based Neutron Absorber Material Sales Quantity Market Share by Application (2018-2029)

Figure 53. Asia-Pacific Boron-based Neutron Absorber Material Sales Quantity Market Share by Region (2018-2029)

Figure 54. Asia-Pacific Boron-based Neutron Absorber Material Consumption Value Market Share by Region (2018-2029)

Figure 55. China Boron-based Neutron Absorber Material Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 56. Japan Boron-based Neutron Absorber Material Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 57. Korea Boron-based Neutron Absorber Material Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 58. India Boron-based Neutron Absorber Material Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 59. Southeast Asia Boron-based Neutron Absorber Material Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 60. Australia Boron-based Neutron Absorber Material Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 61. South America Boron-based Neutron Absorber Material Sales Quantity Market Share by Type (2018-2029)

Figure 62. South America Boron-based Neutron Absorber Material Sales Quantity Market Share by Application (2018-2029)

Figure 63. South America Boron-based Neutron Absorber Material Sales Quantity Market Share by Country (2018-2029)

Figure 64. South America Boron-based Neutron Absorber Material Consumption Value Market Share by Country (2018-2029)

Figure 65. Brazil Boron-based Neutron Absorber Material Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 66. Argentina Boron-based Neutron Absorber Material Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 67. Middle East & Africa Boron-based Neutron Absorber Material Sales Quantity Market Share by Type (2018-2029)

Figure 68. Middle East & Africa Boron-based Neutron Absorber Material Sales Quantity Market Share by Application (2018-2029)

Figure 69. Middle East & Africa Boron-based Neutron Absorber Material Sales Quantity Market Share by Region (2018-2029)

Figure 70. Middle East & Africa Boron-based Neutron Absorber Material Consumption Value Market Share by Region (2018-2029)

Figure 71. Turkey Boron-based Neutron Absorber Material Consumption Value and

Growth Rate (2018-2029) & (USD Million)

Figure 72. Egypt Boron-based Neutron Absorber Material Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 73. Saudi Arabia Boron-based Neutron Absorber Material Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 74. South Africa Boron-based Neutron Absorber Material Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 75. Boron-based Neutron Absorber Material Market Drivers

Figure 76. Boron-based Neutron Absorber Material Market Restraints

Figure 77. Boron-based Neutron Absorber Material Market Trends

Figure 78. Porters Five Forces Analysis

Figure 79. Manufacturing Cost Structure Analysis of Boron-based Neutron Absorber Material in 2022

Figure 80. Manufacturing Process Analysis of Boron-based Neutron Absorber Material

Figure 81. Boron-based Neutron Absorber Material Industrial Chain

Figure 82. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 83. Direct Channel Pros & Cons

Figure 84. Indirect Channel Pros & Cons

Figure 85. Methodology

Figure 86. Research Process and Data Source

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