

Global Metallic Boride Powders Market Growth 2026-2032

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Abstracts

The global Metallic Boride Powders market size is predicted to grow from US\$ 176 million in 2025 to US\$ 284 million in 2032; it is expected to grow at a CAGR of 7.1% from 2026 to 2032.

Metallic Boride Powders are a class of high-performance non-oxide advanced ceramic powders mainly represented by titanium diboride, zirconium diboride, lanthanum hexaboride and other metallic borides. They offer high melting point, high hardness, excellent wear resistance, good electrical and thermal conductivity, and strong thermal stability, and are mainly used in conductive ceramics, evaporation boat materials, wear-resistant and protective coatings, cutting tools, ultra-high-temperature structural materials, and selected electron-emission functional materials. Upstream raw materials mainly include titanium, zirconium, lanthanum and related metals or metal oxides, boron powder, and other auxiliary reaction materials. Major downstream customers include advanced ceramics manufacturers, evaporation boat and metallization material producers, thermal spraying and surface engineering companies, refractory manufacturers, hard tool and wear-resistant composite suppliers, as well as aerospace and defense-related material developers and end users. In 2025, the global Metallic Boride Powders market is estimated to have a total capacity of about 2,680 tons and shipments of about 1,947 tons, with an average ex-factory price of about USD 92.6/kg and a gross margin of about 28%-41%. Overall, titanium diboride powder remains the core volume segment of the market, while zirconium diboride and lanthanum hexaboride are more concentrated in mid- to high-end applications with stricter performance requirements.

The Metallic Boride Powders market is currently at a stage characterized by specialized demand, high technical barriers, and strong application dependence. Compared with

broader ceramic powder or metal powder markets, it remains relatively niche in overall size, but its strategic importance in high-end manufacturing is significant. Current demand is mainly concentrated in conductive ceramics, evaporation materials, wear-resistant coatings, high-temperature structural components, electron emission materials, and selected reinforcement applications. Different boride systems show clear differences in downstream focus. Titanium boride based products are generally more commercialized and widely adopted, while zirconium boride is more closely linked to ultra-high-temperature and thermal protection systems, and hexaboride materials are more associated with electronic and functional applications. As a result, the market is shaped more by performance requirements and application fit than by simple volume competition.

From the supply side, the market is still dominated by a limited number of companies with established capabilities in advanced ceramic powders, refractory compounds, or specialty inorganic materials. The production of metallic boride powders requires strict control over raw material purity, reaction atmosphere, processing temperature, impurity management, and post-treatment steps, which raises the entry threshold for new participants. In addition, downstream requirements vary significantly depending on the end use, including oxygen content, particle size distribution, sintering behavior, conductivity, and thermal stability. This means the market is not purely driven by standardized commodity-grade supply, but also by a meaningful share of customized or application-oriented products. Companies with strong formulation know-how, particle engineering capability, and close cooperation with downstream customers are therefore better positioned to secure long-term business in higher-value segments.

In the coming years, market growth is expected to be supported by continued demand from advanced manufacturing, functional materials, and high-temperature protection applications. Traditional uses such as surface engineering, wear-resistant components, high-temperature conductive ceramics, and composite materials are likely to remain important demand pillars. At the same time, rising performance requirements in aerospace, thermal protection, electron emission, precision processing, and some emerging energy-related equipment fields are expected to support further upgrading of mid- to high-end metallic boride powders. As downstream customers place increasing emphasis on consistency, reliability, and service life, competition will gradually shift from basic material supply toward broader solution capability, including forming, sintering, coating, compounding, and in-service performance matching. In parallel, the growing manufacturing strength of Chinese producers in ultra-high-temperature ceramics, advanced structural ceramics, and specialty powders is likely to increase their influence in the global competitive landscape.

At the same time, the industry still faces several practical constraints. First, end-use applications for metallic boride powders are relatively specialized, and many downstream markets are not large on their own, which tends to limit the pace of rapid volume expansion. Second, the stringent requirements on purity, impurity control, and particle size distribution make yield management, cost control, and supply stability ongoing challenges for producers. Third, high-end applications often require long qualification cycles and extensive performance validation, which makes customer entry difficult for new suppliers. In addition, fluctuations in raw material costs, changes in trade conditions, and uncertainty in demand from advanced industrial sectors can all affect profitability and expansion plans. Overall, the market has solid long-term potential, but its growth path is more likely to be driven by technology improvement and application deepening than by short-term large-scale expansion.

LP Information, Inc. (LPI) ' newest research report, the "Metallic Boride Powders Industry Forecast" looks at past sales and reviews total world Metallic Boride Powders sales in 2025, providing a comprehensive analysis by region and market sector of projected Metallic Boride Powders sales for 2026 through 2032. With Metallic Boride Powders sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Metallic Boride Powders industry.

This Insight Report provides a comprehensive analysis of the global Metallic Boride Powders landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Metallic Boride Powders portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Metallic Boride Powders market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Metallic Boride Powders and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Metallic Boride Powders.

This report presents a comprehensive overview, market shares, and growth opportunities of Metallic Boride Powders market by product type, application, key

manufacturers and key regions and countries.

Segmentation by Type:

Titanium Boride Powder

Zirconium Boride Powder

Lanium Hexaboride Powder

Others

Segmentation by Crystal Chemistry:

Monoboride Powder

Diboride Powder

Hexaboride Powder

Others

Segmentation by Grade:

Thermal Spraying Grade

Conductive Ceramic Grade

Evaporation Boat Grade

Refractory Grade

Others

Segmentation by Application:

Aerospace and Defense

Metallurgy and High-temperature Industries

Electronics and Electrical

Machining and Surface Engineering

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Hoganas

Materion

Momentive Technologies

3M

Huawei Aerospace

Treibacher

PENSC

Longji New Materials Technology

Dandong Rijin

Shanghai Chaowei Nano Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Metallic Boride Powders market?

What factors are driving Metallic Boride Powders market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Metallic Boride Powders market opportunities vary by end market size?

How does Metallic Boride Powders break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Metallic Boride Powders Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Metallic Boride Powders by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Metallic Boride Powders by Country/Region, 2021, 2025 & 2032
- 2.2 Metallic Boride Powders Segment by Type
 - 2.2.1 Titanium Boride Powder
 - 2.2.2 Zirconium Boride Powder
 - 2.2.3 Lanium Hexaboride Powder
 - 2.2.4 Others
 - 2.2.5 Metallic Boride Powders Sales by Type
 - 2.2.5.1 Global Metallic Boride Powders Sales Market Share by Type (2021-2026)
 - 2.2.5.2 Global Metallic Boride Powders Revenue and Market Share by Type (2021-2026)
 - 2.2.5.3 Global Metallic Boride Powders Sale Price by Type (2021-2026)
- 2.3 Metallic Boride Powders Segment by Crystal Chemistry
 - 2.3.1 Monoboride Powder
 - 2.3.2 Diboride Powder
 - 2.3.3 Hexaboride Powder
 - 2.3.4 Others
 - 2.3.5 Metallic Boride Powders Sales by Crystal Chemistry
 - 2.3.5.1 Global Metallic Boride Powders Sales Market Share by Crystal Chemistry (2021-2026)

2.3.5.2 Global Metallic Boride Powders Revenue and Market Share by Crystal Chemistry (2021-2026)

2.3.5.3 Global Metallic Boride Powders Sale Price by Crystal Chemistry (2021-2026)

2.4 Metallic Boride Powders Segment by Grade

2.4.1 Thermal Spraying Grade

2.4.2 Conductive Ceramic Grade

2.4.3 Evaporation Boat Grade

2.4.4 Refractory Grade

2.4.5 Others

2.4.6 Metallic Boride Powders Sales by Grade

2.4.6.1 Global Metallic Boride Powders Sales Market Share by Grade (2021-2026)

2.4.6.2 Global Metallic Boride Powders Revenue and Market Share by Grade (2021-2026)

2.4.6.3 Global Metallic Boride Powders Sale Price by Grade (2021-2026)

2.5 Metallic Boride Powders Segment by Application

2.5.1 Aerospace and Defense

2.5.2 Metallurgy and High-temperature Industries

2.5.3 Electronics and Electrical

2.5.4 Machining and Surface Engineering

2.5.5 Others

2.5.6 Metallic Boride Powders Sales by Application

2.5.6.1 Global Metallic Boride Powders Sale Market Share by Application (2021-2026)

2.5.6.2 Global Metallic Boride Powders Revenue and Market Share by Application (2021-2026)

2.5.6.3 Global Metallic Boride Powders Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Metallic Boride Powders Breakdown Data by Company

3.1.1 Global Metallic Boride Powders Annual Sales by Company (2021-2026)

3.1.2 Global Metallic Boride Powders Sales Market Share by Company (2021-2026)

3.2 Global Metallic Boride Powders Annual Revenue by Company (2021-2026)

3.2.1 Global Metallic Boride Powders Revenue by Company (2021-2026)

3.2.2 Global Metallic Boride Powders Revenue Market Share by Company (2021-2026)

3.3 Global Metallic Boride Powders Sale Price by Company

3.4 Key Manufacturers Metallic Boride Powders Producing Area Distribution, Sales Area, Product Type

- 3.4.1 Key Manufacturers Metallic Boride Powders Product Location Distribution
- 3.4.2 Players Metallic Boride Powders Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR METALLIC BORIDE POWDERS BY GEOGRAPHIC REGION

- 4.1 World Historic Metallic Boride Powders Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Metallic Boride Powders Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Metallic Boride Powders Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Metallic Boride Powders Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Metallic Boride Powders Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Metallic Boride Powders Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Metallic Boride Powders Sales Growth
- 4.4 APAC Metallic Boride Powders Sales Growth
- 4.5 Europe Metallic Boride Powders Sales Growth
- 4.6 Middle East & Africa Metallic Boride Powders Sales Growth

5 AMERICAS

- 5.1 Americas Metallic Boride Powders Sales by Country
 - 5.1.1 Americas Metallic Boride Powders Sales by Country (2021-2026)
 - 5.1.2 Americas Metallic Boride Powders Revenue by Country (2021-2026)
- 5.2 Americas Metallic Boride Powders Sales by Type (2021-2026)
- 5.3 Americas Metallic Boride Powders Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

6.1 APAC Metallic Boride Powders Sales by Region

6.1.1 APAC Metallic Boride Powders Sales by Region (2021-2026)

6.1.2 APAC Metallic Boride Powders Revenue by Region (2021-2026)

6.2 APAC Metallic Boride Powders Sales by Type (2021-2026)

6.3 APAC Metallic Boride Powders Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Metallic Boride Powders by Country

7.1.1 Europe Metallic Boride Powders Sales by Country (2021-2026)

7.1.2 Europe Metallic Boride Powders Revenue by Country (2021-2026)

7.2 Europe Metallic Boride Powders Sales by Type (2021-2026)

7.3 Europe Metallic Boride Powders Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Metallic Boride Powders by Country

8.1.1 Middle East & Africa Metallic Boride Powders Sales by Country (2021-2026)

8.1.2 Middle East & Africa Metallic Boride Powders Revenue by Country (2021-2026)

8.2 Middle East & Africa Metallic Boride Powders Sales by Type (2021-2026)

8.3 Middle East & Africa Metallic Boride Powders Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Metallic Boride Powders

10.3 Manufacturing Process Analysis of Metallic Boride Powders

10.4 Industry Chain Structure of Metallic Boride Powders

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Metallic Boride Powders Distributors

11.3 Metallic Boride Powders Customer

12 WORLD FORECAST REVIEW FOR METALLIC BORIDE POWDERS BY GEOGRAPHIC REGION

12.1 Global Metallic Boride Powders Market Size Forecast by Region

12.1.1 Global Metallic Boride Powders Forecast by Region (2027-2032)

12.1.2 Global Metallic Boride Powders Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Metallic Boride Powders Forecast by Type (2027-2032)

12.7 Global Metallic Boride Powders Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Hoganäs

13.1.1 Hoganäs Company Information

- 13.1.2 Hoganas Metallic Boride Powders Product Portfolios and Specifications
- 13.1.3 Hoganas Metallic Boride Powders Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.1.4 Hoganas Main Business Overview
- 13.1.5 Hoganas Latest Developments
- 13.2 Materion
 - 13.2.1 Materion Company Information
 - 13.2.2 Materion Metallic Boride Powders Product Portfolios and Specifications
 - 13.2.3 Materion Metallic Boride Powders Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.2.4 Materion Main Business Overview
 - 13.2.5 Materion Latest Developments
- 13.3 Momentive Technologies
 - 13.3.1 Momentive Technologies Company Information
 - 13.3.2 Momentive Technologies Metallic Boride Powders Product Portfolios and Specifications
 - 13.3.3 Momentive Technologies Metallic Boride Powders Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 Momentive Technologies Main Business Overview
 - 13.3.5 Momentive Technologies Latest Developments
- 13.4 3M
 - 13.4.1 3M Company Information
 - 13.4.2 3M Metallic Boride Powders Product Portfolios and Specifications
 - 13.4.3 3M Metallic Boride Powders Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 3M Main Business Overview
 - 13.4.5 3M Latest Developments
- 13.5 Huawei Aerospace
 - 13.5.1 Huawei Aerospace Company Information
 - 13.5.2 Huawei Aerospace Metallic Boride Powders Product Portfolios and Specifications
 - 13.5.3 Huawei Aerospace Metallic Boride Powders Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Huawei Aerospace Main Business Overview
 - 13.5.5 Huawei Aerospace Latest Developments
- 13.6 Treibacher
 - 13.6.1 Treibacher Company Information
 - 13.6.2 Treibacher Metallic Boride Powders Product Portfolios and Specifications
 - 13.6.3 Treibacher Metallic Boride Powders Sales, Revenue, Price and Gross Margin

(2021-2026)

13.6.4 Treibacher Main Business Overview

13.6.5 Treibacher Latest Developments

13.7 PENSOC

13.7.1 PENSOC Company Information

13.7.2 PENSOC Metallic Boride Powders Product Portfolios and Specifications

13.7.3 PENSOC Metallic Boride Powders Sales, Revenue, Price and Gross Margin

(2021-2026)

13.7.4 PENSOC Main Business Overview

13.7.5 PENSOC Latest Developments

13.8 Longji New Materials Technology

13.8.1 Longji New Materials Technology Company Information

13.8.2 Longji New Materials Technology Metallic Boride Powders Product Portfolios and Specifications

13.8.3 Longji New Materials Technology Metallic Boride Powders Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Longji New Materials Technology Main Business Overview

13.8.5 Longji New Materials Technology Latest Developments

13.9 Dandong Rijin

13.9.1 Dandong Rijin Company Information

13.9.2 Dandong Rijin Metallic Boride Powders Product Portfolios and Specifications

13.9.3 Dandong Rijin Metallic Boride Powders Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Dandong Rijin Main Business Overview

13.9.5 Dandong Rijin Latest Developments

13.10 Shanghai Chaowei Nano Technology

13.10.1 Shanghai Chaowei Nano Technology Company Information

13.10.2 Shanghai Chaowei Nano Technology Metallic Boride Powders Product Portfolios and Specifications

13.10.3 Shanghai Chaowei Nano Technology Metallic Boride Powders Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Shanghai Chaowei Nano Technology Main Business Overview

13.10.5 Shanghai Chaowei Nano Technology Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Metallic Boride Powders Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Metallic Boride Powders Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Titanium Boride Powder

Table 4. Major Players of Zirconium Boride Powder

Table 5. Major Players of Lanium Hexaboride Powder

Table 6. Major Players of Others

Table 7. Global Metallic Boride Powders Sales by Type (2021-2026) & (Tons)

Table 8. Global Metallic Boride Powders Sales Market Share by Type (2021-2026)

Table 9. Global Metallic Boride Powders Revenue by Type (2021-2026) & (\$ million)

Table 10. Global Metallic Boride Powders Revenue Market Share by Type (2021-2026)

Table 11. Global Metallic Boride Powders Sale Price by Type (2021-2026) & (US\$/kg)

Table 12. Major Players of Monoboride Powder

Table 13. Major Players of Diboride Powder

Table 14. Major Players of Hexaboride Powder

Table 15. Major Players of Others

Table 16. Global Metallic Boride Powders Sales by Crystal Chemistry (2021-2026) & (Tons)

Table 17. Global Metallic Boride Powders Sales Market Share by Crystal Chemistry (2021-2026)

Table 18. Global Metallic Boride Powders Revenue by Crystal Chemistry (2021-2026) & (\$ million)

Table 19. Global Metallic Boride Powders Revenue Market Share by Crystal Chemistry (2021-2026)

Table 20. Global Metallic Boride Powders Sale Price by Crystal Chemistry (2021-2026) & (US\$/kg)

Table 21. Major Players of Thermal Spraying Grade

Table 22. Major Players of Conductive Ceramic Grade

Table 23. Major Players of Evaporation Boat Grade

Table 24. Major Players of Refractory Grade

Table 25. Major Players of Others

Table 26. Global Metallic Boride Powders Sales by Grade (2021-2026) & (Tons)

Table 27. Global Metallic Boride Powders Sales Market Share by Grade (2021-2026)

Table 28. Global Metallic Boride Powders Revenue by Grade (2021-2026) & (\$ million)

Table 29. Global Metallic Boride Powders Revenue Market Share by Grade (2021-2026)

Table 30. Global Metallic Boride Powders Sale Price by Grade (2021-2026) & (US\$/kg)

Table 31. Global Metallic Boride Powders Sale by Application (2021-2026) & (Tons)

Table 32. Global Metallic Boride Powders Sale Market Share by Application (2021-2026)

Table 33. Global Metallic Boride Powders Revenue by Application (2021-2026) & (\$ million)

Table 34. Global Metallic Boride Powders Revenue Market Share by Application (2021-2026)

Table 35. Global Metallic Boride Powders Sale Price by Application (2021-2026) & (US\$/kg)

Table 36. Global Metallic Boride Powders Sales by Company (2021-2026) & (Tons)

Table 37. Global Metallic Boride Powders Sales Market Share by Company (2021-2026)

Table 38. Global Metallic Boride Powders Revenue by Company (2021-2026) & (\$ millions)

Table 39. Global Metallic Boride Powders Revenue Market Share by Company (2021-2026)

Table 40. Global Metallic Boride Powders Sale Price by Company (2021-2026) & (US\$/kg)

Table 41. Key Manufacturers Metallic Boride Powders Producing Area Distribution and Sales Area

Table 42. Players Metallic Boride Powders Products Offered

Table 43. Metallic Boride Powders Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 44. New Products and Potential Entrants

Table 45. Market M&A Activity & Strategy

Table 46. Global Metallic Boride Powders Sales by Geographic Region (2021-2026) & (Tons)

Table 47. Global Metallic Boride Powders Sales Market Share Geographic Region (2021-2026)

Table 48. Global Metallic Boride Powders Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 49. Global Metallic Boride Powders Revenue Market Share by Geographic Region (2021-2026)

Table 50. Global Metallic Boride Powders Sales by Country/Region (2021-2026) & (Tons)

Table 51. Global Metallic Boride Powders Sales Market Share by Country/Region

(2021-2026)

Table 52. Global Metallic Boride Powders Revenue by Country/Region (2021-2026) & (\$ millions)

Table 53. Global Metallic Boride Powders Revenue Market Share by Country/Region (2021-2026)

Table 54. Americas Metallic Boride Powders Sales by Country (2021-2026) & (Tons)

Table 55. Americas Metallic Boride Powders Sales Market Share by Country (2021-2026)

Table 56. Americas Metallic Boride Powders Revenue by Country (2021-2026) & (\$ millions)

Table 57. Americas Metallic Boride Powders Sales by Type (2021-2026) & (Tons)

Table 58. Americas Metallic Boride Powders Sales by Application (2021-2026) & (Tons)

Table 59. APAC Metallic Boride Powders Sales by Region (2021-2026) & (Tons)

Table 60. APAC Metallic Boride Powders Sales Market Share by Region (2021-2026)

Table 61. APAC Metallic Boride Powders Revenue by Region (2021-2026) & (\$ millions)

Table 62. APAC Metallic Boride Powders Sales by Type (2021-2026) & (Tons)

Table 63. APAC Metallic Boride Powders Sales by Application (2021-2026) & (Tons)

Table 64. Europe Metallic Boride Powders Sales by Country (2021-2026) & (Tons)

Table 65. Europe Metallic Boride Powders Revenue by Country (2021-2026) & (\$ millions)

Table 66. Europe Metallic Boride Powders Sales by Type (2021-2026) & (Tons)

Table 67. Europe Metallic Boride Powders Sales by Application (2021-2026) & (Tons)

Table 68. Middle East & Africa Metallic Boride Powders Sales by Country (2021-2026) & (Tons)

Table 69. Middle East & Africa Metallic Boride Powders Revenue Market Share by Country (2021-2026)

Table 70. Middle East & Africa Metallic Boride Powders Sales by Type (2021-2026) & (Tons)

Table 71. Middle East & Africa Metallic Boride Powders Sales by Application (2021-2026) & (Tons)

Table 72. Key Market Drivers & Growth Opportunities of Metallic Boride Powders

Table 73. Key Market Challenges & Risks of Metallic Boride Powders

Table 74. Key Industry Trends of Metallic Boride Powders

Table 75. Metallic Boride Powders Raw Material

Table 76. Key Suppliers of Raw Materials

Table 77. Metallic Boride Powders Distributors List

Table 78. Metallic Boride Powders Customer List

Table 79. Global Metallic Boride Powders Sales Forecast by Region (2027-2032) &

(Tons)

Table 80. Global Metallic Boride Powders Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 81. Americas Metallic Boride Powders Sales Forecast by Country (2027-2032) & (Tons)

Table 82. Americas Metallic Boride Powders Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. APAC Metallic Boride Powders Sales Forecast by Region (2027-2032) & (Tons)

Table 84. APAC Metallic Boride Powders Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 85. Europe Metallic Boride Powders Sales Forecast by Country (2027-2032) & (Tons)

Table 86. Europe Metallic Boride Powders Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 87. Middle East & Africa Metallic Boride Powders Sales Forecast by Country (2027-2032) & (Tons)

Table 88. Middle East & Africa Metallic Boride Powders Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 89. Global Metallic Boride Powders Sales Forecast by Type (2027-2032) & (Tons)

Table 90. Global Metallic Boride Powders Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 91. Global Metallic Boride Powders Sales Forecast by Application (2027-2032) & (Tons)

Table 92. Global Metallic Boride Powders Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 93. Hoganäs Basic Information, Metallic Boride Powders Manufacturing Base, Sales Area and Its Competitors

Table 94. Hoganäs Metallic Boride Powders Product Portfolios and Specifications

Table 95. Hoganäs Metallic Boride Powders Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 96. Hoganäs Main Business

Table 97. Hoganäs Latest Developments

Table 98. Materion Basic Information, Metallic Boride Powders Manufacturing Base, Sales Area and Its Competitors

Table 99. Materion Metallic Boride Powders Product Portfolios and Specifications

Table 100. Materion Metallic Boride Powders Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 101. Materion Main Business

Table 102. Materion Latest Developments
Table 103. Momentive Technologies Basic Information, Metallic Boride Powders Manufacturing Base, Sales Area and Its Competitors
Table 104. Momentive Technologies Metallic Boride Powders Product Portfolios and Specifications
Table 105. Momentive Technologies Metallic Boride Powders Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)
Table 106. Momentive Technologies Main Business
Table 107. Momentive Technologies Latest Developments
Table 108. 3M Basic Information, Metallic Boride Powders Manufacturing Base, Sales Area and Its Competitors
Table 109. 3M Metallic Boride Powders Product Portfolios and Specifications
Table 110. 3M Metallic Boride Powders Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)
Table 111. 3M Main Business
Table 112. 3M Latest Developments
Table 113. Huawei Aerospace Basic Information, Metallic Boride Powders Manufacturing Base, Sales Area and Its Competitors
Table 114. Huawei Aerospace Metallic Boride Powders Product Portfolios and Specifications
Table 115. Huawei Aerospace Metallic Boride Powders Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)
Table 116. Huawei Aerospace Main Business
Table 117. Huawei Aerospace Latest Developments
Table 118. Treibacher Basic Information, Metallic Boride Powders Manufacturing Base, Sales Area and Its Competitors
Table 119. Treibacher Metallic Boride Powders Product Portfolios and Specifications
Table 120. Treibacher Metallic Boride Powders Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)
Table 121. Treibacher Main Business
Table 122. Treibacher Latest Developments
Table 123. PENSIC Basic Information, Metallic Boride Powders Manufacturing Base, Sales Area and Its Competitors
Table 124. PENSIC Metallic Boride Powders Product Portfolios and Specifications
Table 125. PENSIC Metallic Boride Powders Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)
Table 126. PENSIC Main Business
Table 127. PENSIC Latest Developments
Table 128. Longji New Materials Technology Basic Information, Metallic Boride

Powders Manufacturing Base, Sales Area and Its Competitors

Table 129. Longji New Materials Technology Metallic Boride Powders Product Portfolios and Specifications

Table 130. Longji New Materials Technology Metallic Boride Powders Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 131. Longji New Materials Technology Main Business

Table 132. Longji New Materials Technology Latest Developments

Table 133. Dandong Rijin Basic Information, Metallic Boride Powders Manufacturing Base, Sales Area and Its Competitors

Table 134. Dandong Rijin Metallic Boride Powders Product Portfolios and Specifications

Table 135. Dandong Rijin Metallic Boride Powders Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 136. Dandong Rijin Main Business

Table 137. Dandong Rijin Latest Developments

Table 138. Shanghai Chaowei Nano Technology Basic Information, Metallic Boride Powders Manufacturing Base, Sales Area and Its Competitors

Table 139. Shanghai Chaowei Nano Technology Metallic Boride Powders Product Portfolios and Specifications

Table 140. Shanghai Chaowei Nano Technology Metallic Boride Powders Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 141. Shanghai Chaowei Nano Technology Main Business

Table 142. Shanghai Chaowei Nano Technology Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Metallic Boride Powders
- Figure 2. Metallic Boride Powders Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Metallic Boride Powders Sales Growth Rate 2021-2032 (Tons)
- Figure 7. Global Metallic Boride Powders Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Metallic Boride Powders Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Metallic Boride Powders Sales Market Share by Country/Region (2025)
- Figure 10. Metallic Boride Powders Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Titanium Boride Powder
- Figure 12. Product Picture of Zirconium Boride Powder
- Figure 13. Product Picture of Lanium Hexaboride Powder
- Figure 14. Product Picture of Others
- Figure 15. Global Metallic Boride Powders Sales Market Share by Type in 2026
- Figure 16. Global Metallic Boride Powders Revenue Market Share by Type (2021-2026)
- Figure 17. Product Picture of Monoboride Powder
- Figure 18. Product Picture of Diboride Powder
- Figure 19. Product Picture of Hexaboride Powder
- Figure 20. Product Picture of Others
- Figure 21. Global Metallic Boride Powders Sales Market Share by Crystal Chemistry in 2026
- Figure 22. Global Metallic Boride Powders Revenue Market Share by Crystal Chemistry (2021-2026)
- Figure 23. Product Picture of Thermal Spraying Grade
- Figure 24. Product Picture of Conductive Ceramic Grade
- Figure 25. Product Picture of Evaporation Boat Grade
- Figure 26. Product Picture of Refractory Grade
- Figure 27. Product Picture of Others
- Figure 28. Global Metallic Boride Powders Sales Market Share by Grade in 2026
- Figure 29. Global Metallic Boride Powders Revenue Market Share by Grade (2021-2026)
- Figure 30. Metallic Boride Powders Consumed in Aerospace and Defense

Figure 31. Global Metallic Boride Powders Market: Aerospace and Defense (2021-2026) & (Tons)

Figure 32. Metallic Boride Powders Consumed in Metallurgy and High-temperature Industries

Figure 33. Global Metallic Boride Powders Market: Metallurgy and High-temperature Industries (2021-2026) & (Tons)

Figure 34. Metallic Boride Powders Consumed in Electronics and Electrical

Figure 35. Global Metallic Boride Powders Market: Electronics and Electrical (2021-2026) & (Tons)

Figure 36. Metallic Boride Powders Consumed in Machining and Surface Engineering

Figure 37. Global Metallic Boride Powders Market: Machining and Surface Engineering (2021-2026) & (Tons)

Figure 38. Metallic Boride Powders Consumed in Others

Figure 39. Global Metallic Boride Powders Market: Others (2021-2026) & (Tons)

Figure 40. Global Metallic Boride Powders Sale Market Share by Application (2025)

Figure 41. Global Metallic Boride Powders Revenue Market Share by Application in 2025

Figure 42. Metallic Boride Powders Sales by Company in 2025 (Tons)

Figure 43. Global Metallic Boride Powders Sales Market Share by Company in 2025

Figure 44. Metallic Boride Powders Revenue by Company in 2025 (\$ millions)

Figure 45. Global Metallic Boride Powders Revenue Market Share by Company in 2025

Figure 46. Global Metallic Boride Powders Sales Market Share by Geographic Region (2021-2026)

Figure 47. Global Metallic Boride Powders Revenue Market Share by Geographic Region in 2025

Figure 48. Americas Metallic Boride Powders Sales 2021-2026 (Tons)

Figure 49. Americas Metallic Boride Powders Revenue 2021-2026 (\$ millions)

Figure 50. APAC Metallic Boride Powders Sales 2021-2026 (Tons)

Figure 51. APAC Metallic Boride Powders Revenue 2021-2026 (\$ millions)

Figure 52. Europe Metallic Boride Powders Sales 2021-2026 (Tons)

Figure 53. Europe Metallic Boride Powders Revenue 2021-2026 (\$ millions)

Figure 54. Middle East & Africa Metallic Boride Powders Sales 2021-2026 (Tons)

Figure 55. Middle East & Africa Metallic Boride Powders Revenue 2021-2026 (\$ millions)

Figure 56. Americas Metallic Boride Powders Sales Market Share by Country in 2025

Figure 57. Americas Metallic Boride Powders Revenue Market Share by Country (2021-2026)

Figure 58. Americas Metallic Boride Powders Sales Market Share by Type (2021-2026)

Figure 59. Americas Metallic Boride Powders Sales Market Share by Application

(2021-2026)

Figure 60. United States Metallic Boride Powders Revenue Growth 2021-2026 (\$ millions)

Figure 61. Canada Metallic Boride Powders Revenue Growth 2021-2026 (\$ millions)

Figure 62. Mexico Metallic Boride Powders Revenue Growth 2021-2026 (\$ millions)

Figure 63. Brazil Metallic Boride Powders Revenue Growth 2021-2026 (\$ millions)

Figure 64. APAC Metallic Boride Powders Sales Market Share by Region in 2025

Figure 65. APAC Metallic Boride Powders Revenue Market Share by Region (2021-2026)

Figure 66. APAC Metallic Boride Powders Sales Market Share by Type (2021-2026)

Figure 67. APAC Metallic Boride Powders Sales Market Share by Application (2021-2026)

Figure 68. China Metallic Boride Powders Revenue Growth 2021-2026 (\$ millions)

Figure 69. Japan Metallic Boride Powders Revenue Growth 2021-2026 (\$ millions)

Figure 70. South Korea Metallic Boride Powders Revenue Growth 2021-2026 (\$ millions)

Figure 71. Southeast Asia Metallic Boride Powders Revenue Growth 2021-2026 (\$ millions)

Figure 72. India Metallic Boride Powders Revenue Growth 2021-2026 (\$ millions)

Figure 73. Australia Metallic Boride Powders Revenue Growth 2021-2026 (\$ millions)

Figure 74. China Taiwan Metallic Boride Powders Revenue Growth 2021-2026 (\$ millions)

Figure 75. Europe Metallic Boride Powders Sales Market Share by Country in 2025

Figure 76. Europe Metallic Boride Powders Revenue Market Share by Country (2021-2026)

Figure 77. Europe Metallic Boride Powders Sales Market Share by Type (2021-2026)

Figure 78. Europe Metallic Boride Powders Sales Market Share by Application (2021-2026)

Figure 79. Germany Metallic Boride Powders Revenue Growth 2021-2026 (\$ millions)

Figure 80. France Metallic Boride Powders Revenue Growth 2021-2026 (\$ millions)

Figure 81. UK Metallic Boride Powders Revenue Growth 2021-2026 (\$ millions)

Figure 82. Italy Metallic Boride Powders Revenue Growth 2021-2026 (\$ millions)

Figure 83. Russia Metallic Boride Powders Revenue Growth 2021-2026 (\$ millions)

Figure 84. Middle East & Africa Metallic Boride Powders Sales Market Share by Country (2021-2026)

Figure 85. Middle East & Africa Metallic Boride Powders Sales Market Share by Type (2021-2026)

Figure 86. Middle East & Africa Metallic Boride Powders Sales Market Share by Application (2021-2026)

Figure 87. Egypt Metallic Boride Powders Revenue Growth 2021-2026 (\$ millions)

Figure 88. South Africa Metallic Boride Powders Revenue Growth 2021-2026 (\$ millions)

Figure 89. Israel Metallic Boride Powders Revenue Growth 2021-2026 (\$ millions)

Figure 90. Turkey Metallic Boride Powders Revenue Growth 2021-2026 (\$ millions)

Figure 91. GCC Countries Metallic Boride Powders Revenue Growth 2021-2026 (\$ millions)

Figure 92. Manufacturing Cost Structure Analysis of Metallic Boride Powders in 2026

Figure 93. Manufacturing Process Analysis of Metallic Boride Powders

Figure 94. Industry Chain Structure of Metallic Boride Powders

Figure 95. Channels of Distribution

Figure 96. Global Metallic Boride Powders Sales Market Forecast by Region (2027-2032)

Figure 97. Global Metallic Boride Powders Revenue Market Share Forecast by Region (2027-2032)

Figure 98. Global Metallic Boride Powders Sales Market Share Forecast by Type (2027-2032)

Figure 99. Global Metallic Boride Powders Revenue Market Share Forecast by Type (2027-2032)

Figure 100. Global Metallic Boride Powders Sales Market Share Forecast by Application (2027-2032)

Figure 101. Global Metallic Boride Powders Revenue Market Share Forecast by Application (2027-2032)

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