

Global 11B Enriched Boron Trifluoride Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global 11B Enriched Boron Trifluoride market size will reach 247.06 Million USD in 2025 and is projected to reach 722.19 Million USD by 2032, with a CAGR of 16.56% (2025-2032). Notably, the China 11B Enriched Boron Trifluoride market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

11B enriched boron trifluoride refers to boron trifluoride gas in which the boron has been enriched in the boron-11 isotope. Boron trifluoride typically consists of a mixture of isotopes, with boron-11 being the most common, but enriched BF₃ contains a higher proportion of boron-11 atoms. This enrichment process involves separating boron-11 from boron-10, resulting in a gas with a higher concentration of boron-11 atoms. Enriched BF₃ is utilized in various applications, particularly in the semiconductor industry for the production of boron-doped silicon, where boron-11 is preferred due to its lower neutron capture cross-section. Additionally, it is used in neutron detection devices and boron neutron capture therapy (BNCT) for cancer treatment, where boron-11's ability to capture neutrons is crucial for targeted cancer cell destruction while sparing healthy tissue.

The major global manufacturers of 11B Enriched Boron Trifluoride include 3M, NUKEM Isotopes, Linde Gases, YAMANAKA ADVANCED MATERIALS, Air Liquide, Entegris, Shandong Zhongshan Photoelectric Materials, Dalian Boronten Sci&Tech, etc. The

global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of 11B Enriched Boron Trifluoride. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global 11B Enriched Boron Trifluoride market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the 11B Enriched Boron Trifluoride market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of 11B Enriched Boron Trifluoride industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of 11B Enriched Boron Trifluoride Include:

3M

NUKEM Isotopes

Linde Gases

YAMANAKA ADVANCED MATERIALS

Air Liquide

Entegris

Shandong Zhongshan Photoelectric Materials

Dalian Boronten Sci&Tech

11B Enriched Boron Trifluoride Product Segment Include:

Purity?99.9%

Purity?99.9%

11B Enriched Boron Trifluoride Product Application Include:

Semiconductor Industry

Other

Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

Chapter 2: Global 11B Enriched Boron Trifluoride Capacity and Production Analysis

Chapter 3: Global 11B Enriched Boron Trifluoride Industry PESTEL Analysis

Chapter 4: Global 11B Enriched Boron Trifluoride Industry Porter's Five Forces Analysis

Chapter 5: Global 11B Enriched Boron Trifluoride Major Regional Market Size (Revenue, Sales, Price) and Forecast Analysis

Chapter 6: Global 11B Enriched Boron Trifluoride Market Size and Forecast by Type and Application Analysis

Chapter 7: North America 11B Enriched Boron Trifluoride Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 8: Europe 11B Enriched Boron Trifluoride Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 9: China 11B Enriched Boron Trifluoride Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 10: APAC (Excl. China) 11B Enriched Boron Trifluoride Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 11: Latin America 11B Enriched Boron Trifluoride Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 12: Middle East and Africa 11B Enriched Boron Trifluoride Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 13: Global 11B Enriched Boron Trifluoride Competitive Analysis of Key Manufacturers (Sales, Revenue, Market Share, Price, Regional Distribution and Industry Concentration)

Chapter 14: Key Company Profiles (Product Portfolio, Sales, Revenue, Price and Gross Margin)

Chapter 15: Industrial Chain Analysis, Include Raw Material Suppliers, Distributors and Customers

Chapter 16: Research Findings and Conclusion

Chapter 17: Methodology and Data Sources

Contents

1 11B ENRICHED BORON TRIFLUORIDE MARKET OVERVIEW

- 1.1 Product Definition and Statistical Scope
- 1.2 11B Enriched Boron Trifluoride Product by Type
 - 1.2.1 Purity?99.9%
 - 1.2.2 Purity

List Of Tables

LIST OF TABLES

Table 1: Global 11B Enriched Boron Trifluoride Market Size Growth Rate by Type, 2024 VS 2025 VS 2032 (US\$ Million)

Table 2: Global 11B Enriched Boron Trifluoride Market Size Growth Rate by Application, 2024 VS 2025 VS 2032 (US\$ Million)

Table 3: 11B Enriched Boron Trifluoride Industry Development Status

Table 4: 11B Enriched Boron Trifluoride Industry Development Trends

Table 5: Global 11B Enriched Boron Trifluoride Production Growth Rate (CAGR) by Region: 2024 VS 2025 VS 2032 (Ton)

Table 6: Global 11B Enriched Boron Trifluoride Production by Region (2020-2025) & (Ton)

Table 7: Global 11B Enriched Boron Trifluoride Production Forecast by Region (2026-2032) & (Ton)

Table 8: Global 11B Enriched Boron Trifluoride Production Market Share by Region (2020-2025)

Table 9: Global 11B Enriched Boron Trifluoride Production Market Share by Region (2026-2032)

Table 10: Global 11B Enriched Boron Trifluoride Market Size by Region in US\$ Million: 2024 VS 2025 VS 2032

Table 11: Global 11B Enriched Boron Trifluoride Revenue by Region (2020-2025) & (US\$ Million)

Table 12: Global 11B Enriched Boron Trifluoride Revenue Market Share by Region (2020-2025)

Table 13: Global 11B Enriched Boron Trifluoride Revenue Forecast by Region (2026-2032) & (US\$ Million)

Table 14: Global 11B Enriched Boron Trifluoride Revenue Market Share Forecast by Region (2026-2032)

Table 15: Global 11B Enriched Boron Trifluoride Sales by Region (2020-2025) & (Ton)

Table 16: Global 11B Enriched Boron Trifluoride Sales Market Share by Region (2020-2025)

Table 17: Global 11B Enriched Boron Trifluoride Sales Forecast by Region (2026-2032) & (Ton)

Table 18: Global 11B Enriched Boron Trifluoride Sales Market Share Forecast by Region (2026-2032)

Table 19: Global 11B Enriched Boron Trifluoride Revenue Analysis by Type (2020-2025) & (US\$ Million)

Table 20: Global 11B Enriched Boron Trifluoride Revenue Analysis Forecast by Type

(2026-2032) & (US\$ Million)

Table 21: Global 11B Enriched Boron Trifluoride Sales Analysis by Type (2020-2025) & (Ton)

Table 22: Global 11B Enriched Boron Trifluoride Sales Analysis Forecast by Type (2026-2032) & (Ton)

Table 23: Global 11B Enriched Boron Trifluoride Revenue Analysis by Application (2020-2025) & (US\$ Million)

Table 24: Global 11B Enriched Boron Trifluoride Revenue Analysis Forecast by Application (2026-2032) & (US\$ Million)

Table 25: Global 11B Enriched Boron Trifluoride Sales Analysis by Application (2020-2025) & (Ton)

Table 26: Global 11B Enriched Boron Trifluoride Sales Analysis Forecast by Application (2026-2032) & (Ton)

Table 27: Key 11B Enriched Boron Trifluoride Players in North America

Table 28: North America 11B Enriched Boron Trifluoride Sales by Type (2020-2025) & (Ton)

Table 29: North America 11B Enriched Boron Trifluoride Sales by Type (2026-2032) & (Ton)

Table 30: North America 11B Enriched Boron Trifluoride Revenue by Type (2020-2025) & (US\$ Million)

Table 31: North America 11B Enriched Boron Trifluoride Revenue by Type (2026-2032) & (US\$ Million)

Table 32: North America 11B Enriched Boron Trifluoride Sales by Application (2020-2025) & (Ton)

Table 33: North America 11B Enriched Boron Trifluoride Sales by Application (2026-2032) & (Ton)

Table 34: North America 11B Enriched Boron Trifluoride Revenue by Application (2020-2025) & (US\$ Million)

Table 35: North America 11B Enriched Boron Trifluoride Revenue by Application (2026-2032) & (US\$ Million)

Table 36: North America 11B Enriched Boron Trifluoride Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 37: North America 11B Enriched Boron Trifluoride Revenue Market Size by Country (2026-2032) & (US\$ Million)

Table 38: North America 11B Enriched Boron Trifluoride Sales Market Size by Country (2020-2025) & (Ton)

Table 39: North America 11B Enriched Boron Trifluoride Sales Market Size by Country (2026-2032) & (Ton)

Table 40: Key 11B Enriched Boron Trifluoride Players in Europe

Table 41: Europe 11B Enriched Boron Trifluoride Sales by Type (2020-2025) & (Ton)

Table 42: Europe 11B Enriched Boron Trifluoride Sales by Type (2026-2032) & (Ton)

Table 43: Europe 11B Enriched Boron Trifluoride Revenue by Type (2020-2025) & (US\$ Million)

Table 44: Europe 11B Enriched Boron Trifluoride Revenue by Type (2026-2032) & (US\$ Million)

Table 45: Europe 11B Enriched Boron Trifluoride Sales by Application (2020-2025) & (Ton)

Table 46: Europe 11B Enriched Boron Trifluoride Sales by Application (2026-2032) & (Ton)

Table 47: Europe 11B Enriched Boron Trifluoride Revenue by Application (2020-2025) & (US\$ Million)

Table 48: Europe 11B Enriched Boron Trifluoride Revenue by Application (2026-2032) & (US\$ Million)

Table 49: Europe 11B Enriched Boron Trifluoride Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 50: Europe 11B Enriched Boron Trifluoride Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 51: Europe 11B Enriched Boron Trifluoride Sales Market Size by Country (2020-2025) & (Ton)

Table 52: Europe 11B Enriched Boron Trifluoride Sales Market Size Forecast by Country (2026-2032) & (Ton)

Table 53: Key 11B Enriched Boron Trifluoride Players in China

Table 54: China 11B Enriched Boron Trifluoride Sales by Type (2020-2025) & (Ton)

Table 55: China 11B Enriched Boron Trifluoride Sales by Type (2026-2032) & (Ton)

Table 56: China 11B Enriched Boron Trifluoride Revenue by Type (2020-2025) & (US\$ Million)

Table 57: China 11B Enriched Boron Trifluoride Revenue by Type (2026-2032) & (US\$ Million)

Table 58: China 11B Enriched Boron Trifluoride Sales by Application (2020-2025) & (Ton)

Table 59: China 11B Enriched Boron Trifluoride Sales by Application (2026-2032) & (Ton)

Table 60: China 11B Enriched Boron Trifluoride Revenue by Application (2020-2025) & (US\$ Million)

Table 61: China 11B Enriched Boron Trifluoride Revenue by Application (2026-2032) & (US\$ Million)

Table 62: Key 11B Enriched Boron Trifluoride Players in APAC (excl. China)

Table 63: APAC (excl. China) 11B Enriched Boron Trifluoride Sales by Type

(2020-2025) & (Ton)

Table 64: APAC (excl. China) 11B Enriched Boron Trifluoride Sales by Type

(2026-2032) & (Ton)

Table 65: APAC (excl. China) 11B Enriched Boron Trifluoride Revenue by Type

(2020-2025) & (US\$ Million)

Table 66: APAC (excl. China) 11B Enriched Boron Trifluoride Revenue by Type

(2026-2032) & (US\$ Million)

Table 67: APAC (excl. China) 11B Enriched Boron Trifluoride Sales by Application

(2020-2025) & (Ton)

Table 68: APAC (excl. China) 11B Enriched Boron Trifluoride Sales by Application

(2026-2032) & (Ton)

Table 69: APAC (excl. China) 11B Enriched Boron Trifluoride Revenue by Application

(2020-2025) & (US\$ Million)

Table 70: APAC (excl. China) 11B Enriched Boron Trifluoride Revenue by Application

(2026-2032) & (US\$ Million)

Table 71:: APAC (excl. China) 11B Enriched Boron Trifluoride Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 72: APAC (excl. China) 11B Enriched Boron Trifluoride Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 73: APAC (excl. China) 11B Enriched Boron Trifluoride Sales Market Size by Country (2020-2025) & (Ton)

Table 74: APAC (excl. China) 11B Enriched Boron Trifluoride Sales Market Size Forecast by Country (2026-2032) & (Ton)

Table 75: Key 11B Enriched Boron Trifluoride Players in Latin America

Table 76: Latin America 11B Enriched Boron Trifluoride Sales by Type (2020-2025) & (Ton)

Table 77: Latin America 11B Enriched Boron Trifluoride Sales by Type (2026-2032) & (Ton)

Table 78: Latin America 11B Enriched Boron Trifluoride Revenue by Type (2020-2025) & (US\$ Million)

Table 79: Latin America 11B Enriched Boron Trifluoride Revenue by Type (2026-2032) & (US\$ Million)

Table 80: Latin America 11B Enriched Boron Trifluoride Sales by Application (2020-2025) & (Ton)

Table 81: Latin America 11B Enriched Boron Trifluoride Sales by Application (2026-2032) & (Ton)

Table 82: Latin America 11B Enriched Boron Trifluoride Revenue by Application (2020-2025) & (US\$ Million)

Table 83: Latin America 11B Enriched Boron Trifluoride Revenue by Application

(2026-2032) & (US\$ Million)

Table 84: Latin America 11B Enriched Boron Trifluoride Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 85: Latin America 11B Enriched Boron Trifluoride Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 86: Latin America 11B Enriched Boron Trifluoride Sales Market Size by Country (2020-2025) & (Ton)

Table 87: Latin America 11B Enriched Boron Trifluoride Sales Market Size Forecast by Country (2026-2032) & (Ton)

Table 88: Key 11B Enriched Boron Trifluoride Players in Middle East & Africa

Table 89: Middle East & Africa 11B Enriched Boron Trifluoride Sales by Type (2020-2025) & (Ton)

Table 90: Middle East & Africa 11B Enriched Boron Trifluoride Sales by Type (2026-2032) & (Ton)

Table 91: Middle East & Africa 11B Enriched Boron Trifluoride Revenue by Type (2020-2025) & (US\$ Million)

Table 92: Middle East & Africa 11B Enriched Boron Trifluoride Revenue by Type (2026-2032) & (US\$ Million)

Table 93: Middle East & Africa 11B Enriched Boron Trifluoride Sales by Application (2020-2025) & (Ton)

Table 94: Middle East & Africa 11B Enriched Boron Trifluoride Sales by Application (2026-2032) & (Ton)

Table 95: Middle East & Africa 11B Enriched Boron Trifluoride Revenue by Application (2020-2025) & (US\$ Million)

Table 96: Middle East & Africa 11B Enriched Boron Trifluoride Revenue by Application (2026-2032) & (US\$ Million)

Table 97: Middle East & Africa 11B Enriched Boron Trifluoride Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 98: Middle East & Africa 11B Enriched Boron Trifluoride Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 99: Middle East & Africa 11B Enriched Boron Trifluoride Sales Market Size by Country (2020-2025) & (Ton)

Table 100: Middle East & Africa 11B Enriched Boron Trifluoride Sales Market Size Forecast by Country (2026-2032) & (Ton)

Table 101: Global 11B Enriched Boron Trifluoride Market Sales by Key Manufacturers (2021-2025) & (Ton)

Table 102: Global 11B Enriched Boron Trifluoride Sales Market Share by Key Manufacturers (2021-2025)

Table 103: Global 11B Enriched Boron Trifluoride Market Revenue by Key

Manufacturers (2021-2025) & (US\$ Million)

Table 104: Global 11B Enriched Boron Trifluoride Revenue Market Share by Key Manufacturers (2021-2025)

Table 105: Global Average Sales Price by Manufacturers (2021-2025) & (USD/Ton)

Table 106: Global Key Manufacturers Headquarter Location and Key Area Sales

Table 107: Market Mergers & Acquisitions, Expansion

Table 108: 3M Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 109: 3M 11B Enriched Boron Trifluoride Product Portfolio

Table 110: 3M 11B Enriched Boron Trifluoride Revenue (US\$ Million), Sales (Ton), Price (USD/Ton), Gross Margin and Market Share (2021-2025)

Table 111: NUKEM Isotopes Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 112: NUKEM Isotopes 11B Enriched Boron Trifluoride Product Portfolio

Table 113: NUKEM Isotopes 11B Enriched Boron Trifluoride Revenue (US\$ Million), Sales (Ton), Price (USD/Ton), Gross Margin and Market Share (2021-2025)

Table 114: Linde Gases Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 115: Linde Gases 11B Enriched Boron Trifluoride Product Portfolio

Table 116: Linde Gases 11B Enriched Boron Trifluoride Revenue (US\$ Million), Sales (Ton), Price (USD/Ton), Gross Margin and Market Share (2021-2025)

Table 117: YAMANAKA ADVANCED MATERIALS Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 118: YAMANAKA ADVANCED MATERIALS 11B Enriched Boron Trifluoride Product Portfolio

Table 119: YAMANAKA ADVANCED MATERIALS 11B Enriched Boron Trifluoride Revenue (US\$ Million), Sales (Ton), Price (USD/Ton), Gross Margin and Market Share (2021-2025)

Table 120: Air Liquide Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 121: Air Liquide 11B Enriched Boron Trifluoride Product Portfolio

Table 122: Air Liquide 11B Enriched Boron Trifluoride Revenue (US\$ Million), Sales (Ton), Price (USD/Ton), Gross Margin and Market Share (2021-2025)

Table 123: Entegris Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 124: Entegris 11B Enriched Boron Trifluoride Product Portfolio

Table 125: Entegris 11B Enriched Boron Trifluoride Revenue (US\$ Million), Sales (Ton), Price (USD/Ton), Gross Margin and Market Share (2021-2025)

Table 126: Shandong Zhongshan Photoelectric Materials Basic Company Profile

(Employees, Areas Service, Competitors and Contact Information)

Table 127: Shandong Zhongshan Photoelectric Materials 11B Enriched Boron Trifluoride Product Portfolio

Table 128: Shandong Zhongshan Photoelectric Materials 11B Enriched Boron Trifluoride Revenue (US\$ Million), Sales (Ton), Price (USD/Ton), Gross Margin and Market Share (2021-2025)

Table 129: Dalian Boronten Sci&Tech Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 130: Dalian Boronten Sci&Tech 11B Enriched Boron Trifluoride Product Portfolio

Table 131: Dalian Boronten Sci&Tech 11B Enriched Boron Trifluoride Revenue (US\$ Million), Sales (Ton), Price (USD/Ton), Gross Margin and Market Share (2021-2025)

Table 132: Upstream Key Raw Material Price List

Table 133: 11B Enriched Boron Trifluoride Raw Material Suppliers and Contact Information

Table 134: 11B Enriched Boron Trifluoride Typical Customer List

Table 135: 11B Enriched Boron Trifluoride Distributors List

List Of Figures

LIST OF FIGURES

Figure 1: 11B Enriched Boron Trifluoride Product Pictures

Figure 2: Purity?99.9% Picture Scope

Figure 3: Purity

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