

Global and Regional High-purity Amorphous Boron Market Research Report 2017

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Abstracts

SUMMARY

Boron can be prepared in several crystalline and amorphous forms. Well known crystalline forms are α -rhombohedral, β -rhombohedral, and γ -tetragonal. In special circumstances, boron can also be synthesized in the form of its δ -tetragonal, and ϵ -orthorhombic allotropes. Two amorphous forms, one a finely divided powder and the other a glassy solid, are also known. Although at least 14 more allotropes have been reported, these other forms are based on tenuous evidence or have not been experimentally confirmed, or are thought to represent mixed allotropes, or boron frameworks stabilized by impurities. Whereas the β -rhombohedral phase is the most stable and the others are metastable, the transformation rate is negligible at room temperature, and thus all five phases can exist at ambient conditions. Amorphous powder boron and polycrystalline rhombohedral β -boron are the most common forms. The latter allotrope is a very hard [n 1] grey material, about ten percent lighter than aluminium and with a melting point (2080 °C) several hundred degrees higher than that of steel.

Market Segment as follows:

By Region

Asia-Pacific

North America

Europe

South America

Middle East & Africa

By Type

92%-95%

95%-99%

>99%

Others

By Application

Industrial field

Aerospace and the military field.

Others

By Company

SB Boron

H.C. Starck GmbH

SkySpring Nanomaterials, Inc.

CRS Chemicals

Baoding Zhongpuruituo Technology

New Metals and Chemicals Ltd.

Yingkou Tanyun Chemical Research Institute Corporation

Noah Technologies Corporation

YingKou Liaobin Fine Chemicals

Dandong Chemical Engineering Institute (DCEI)

Liaoning Pengda Technology

Tangshan Weihao Magnesium Powder

The main contents of the report including:

Section 1: Product definition, type and application, global and regional market overview;

Section 2: Global and regional Market competition by company;

Section 3: Global and regional sales revenue, volume and price by type;

Section 4: Global and regional sales revenue, volume and price by application;

Section 5: Regional export and import;

Section 6: Company information, business overview, sales data and product specifications;

Section 7: Industry chain and raw materials;

Section 8: SWOT and Porter's Five Forces;

Section 9: Conclusion.

Contents

1 MARKET OVERVIEW

1.1 Market Segment Overview

1.1.1 Product Definition

1.1.2 Market by Type

1.1.2.1 92%-95%

1.1.2.2 95%-99%

1.1.2.3 >99%

1.1.2.4 Others

1.1.3 Market by Application

1.1.3.1 Industrial field

1.1.3.2 Aerospace and the military field.

1.1.3.3 Others

1.2 Global and Regional Market Size

1.2.1 Global Overview

1.2.2 Market by Region

1.2.2.1 Asia-Pacific

1.2.2.2 North America

1.2.2.3 Europe

1.2.2.4 South America

1.2.2.5 Middle East & Africa

2 GLOBAL AND REGIONAL MARKET BY COMPANY

2.1 Global

2.1.1 Global Sales by Company

2.1.2 Global Price by Company

2.2 Asia-Pacific

2.2.1 Asia-Pacific Sales by Company

2.2.2 Asia-Pacific Price by Company

2.3 North America

2.3.1 North America Sales by Company

2.3.2 North America Price by Company

2.4 Europe

2.4.1 Europe Market Sales by Company

2.4.2 Europe Price by Company

2.5 South America

- 2.5.1 South America Sales by Company
- 2.5.2 South America Price by Company
- 2.6 Middle East & Africa
 - 2.6.1 Middle East & Africa Sales by Company
 - 2.6.2 Middle East & Africa Price by Company

3 GLOBAL AND REGIONAL MARKET BY TYPE

- 3.1 Global
 - 3.1.1 Global Sales by Type
 - 3.1.2 Global Price by Type
- 3.2 Asia-Pacific
 - 3.2.1 Asia-Pacific Sales by Type
 - 3.2.2 Asia-Pacific Price by Type
- 3.3 North America
 - 3.3.1 North America Sales by Type
 - 3.3.2 North America Price by Type
- 3.4 Europe
 - 3.4.1 Europe Market Sales by Type
 - 3.4.2 Europe Price by Type
- 3.5 South America
 - 3.5.1 South America Sales by Type
 - 3.5.2 South America Price by Type
- 3.6 Middle East & Africa
 - 3.6.1 Middle East & Africa Sales by Type
 - 3.6.2 Middle East & Africa Price by Type

4 GLOBAL AND REGIONAL MARKET BY APPLICATION

- 4.1 Global
 - 4.1.1 Global Sales by Application
 - 4.1.2 Global Price by Application
- 4.2 Asia-Pacific
 - 4.2.1 Asia-Pacific Sales by Application
 - 4.2.2 Asia-Pacific Price by Application
- 4.3 North America
 - 4.3.1 North America Sales by Application
 - 4.3.2 North America Price by Application
- 4.4 Europe

- 4.4.1 Europe Market Sales by Application
- 4.4.2 Europe Price by Application
- 4.5 South America
 - 4.5.1 South America Sales by Application
 - 4.5.2 South America Price by Application
- 4.6 Middle East & Africa
 - 4.6.1 Middle East & Africa Sales by Application
 - 4.6.2 Middle East & Africa Price by Application

5 REGIONAL TRADE

- 5.1 Export
- 5.2 Import

6 KEY MANUFACTURERS

- 6.1 SB Boron
 - 6.1.2 Company Information
 - 6.1.2 Product Specifications
 - 6.1.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 6.2 H.C. Starck GmbH
 - 6.2.1 Company Information
 - 6.2.2 Product Specifications
 - 6.2.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 6.3 SkySpring Nanomaterials, Inc.
 - 6.3.1 Company Information
 - 6.3.2 Product Specifications
 - 6.3.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 6.4 CRS Chemicals
 - 6.4.1 Company Information
 - 6.4.2 Product Specifications
 - 6.4.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 6.5 Baoding Zhongpuruituo Technology
 - 6.5.1 Company Information
 - 6.5.2 Product Specifications
 - 6.5.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 6.6 New Metals and Chemicals Ltd.
 - 6.6.1 Company Information
 - 6.6.2 Product Specifications

- 6.6.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 6.7 Yingkou Tanyun Chemical Research Institute Corporation
 - 6.7.1 Company Information
 - 6.7.2 Product Specifications
 - 6.7.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 6.8 Noah Technologies Corporation
 - 6.8.1 Company Information
 - 6.8.2 Product Specifications
 - 6.8.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 6.9 Yingkou Liaobin Fine Chemicals
 - 6.9.1 Company Information
 - 6.9.2 Product Specifications
 - 6.9.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 6.10 Dandong Chemical Engineering Institute (DCEI)
 - 6.10.1 Company Information
 - 6.10.2 Product Specifications
 - 6.10.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 6.11 Liaoning Pengda Technology
- 6.12 Tangshan Weihao Magnesium Powder

7 INDUSTRY UPSTREAM

- 7.1 Industry Chain
- 7.2 Raw Materials

8 MARKET ENVIRONMENT

- 8.1 SWOT
- 8.2 Porter's Five Forces

9 CONCLUSION

List Of Tables

LIST OF TABLES

Table Global Market Sales Revenue by Company 2011-2017
Table Global Market Sales Revenue Share by Company 2011-2017
Table Global Market Sales Volume by Company 2011-2017
Table Global Market Sales Volume Share by Company 2011-2017
Table Global Price by Company 2011-2017
Table Asia-Pacific Market Sales Revenue by Company 2011-2017
Table Asia-Pacific Market Sales Revenue Share by Company 2011-2017
Table Asia-Pacific Market Sales Volume by Company 2011-2017
Table Asia-Pacific Market Sales Volume Share by Company 2011-2017
Table Asia-Pacific Price by Company 2011-2017
Table North America Market Sales Revenue by Company 2011-2017
Table North America Market Sales Revenue Share by Company 2011-2017
Table North America Market Sales Volume by Company 2011-2017
Table North America Market Sales Volume Share by Company 2011-2017
Table North America Price by Company 2011-2017
Table Europe Market Sales Revenue by Company 2011-2017
Table Europe Market Sales Revenue Share by Company 2011-2017
Table Europe Market Sales Volume by Company 2011-2017
Table Europe Market Sales Volume Share by Company 2011-2017
Table Europe Price by Company 2011-2017
Table South America Market Sales Revenue by Company 2011-2017
Table South America Market Sales Revenue Share by Company 2011-2017
Table South America Market Sales Volume by Company 2011-2017
Table South America Market Sales Volume Share by Company 2011-2017
Table South America Price by Company 2011-2017
Table Middle East & Africa Market Sales Revenue by Company 2011-2017
Table Middle East & Africa Market Sales Revenue Share by Company 2011-2017
Table Middle East & Africa Market Sales Volume by Company 2011-2017
Table Middle East & Africa Market Sales Volume Share by Company 2011-2017
Table Middle East & Africa Price by Company 2011-2017
Table Global Market Sales Revenue by Type 2011-2017
Table Global Market Sales Revenue Share by Type 2011-2017
Table Global Market Sales Volume by Type 2011-2017
Table Global Market Sales Volume Share by Type 2011-2017
Table Global Price by Type 2011-2017

Table Asia-Pacific Market Sales Revenue by Type 2011-2017
Table Asia-Pacific Market Sales Revenue Share by Type 2011-2017
Table Asia-Pacific Market Sales Volume by Type 2011-2017
Table Asia-Pacific Market Sales Volume Share by Type 2011-2017
Table Asia-Pacific Price by Type 2011-2017
Table North America Market Sales Revenue by Type 2011-2017
Table North America Market Sales Revenue Share by Type 2011-2017
Table North America Market Sales Volume by Type 2011-2017
Table North America Market Sales Volume Share by Type 2011-2017
Table North America Price by Type 2011-2017
Table Europe Market Sales Revenue by Type 2011-2017
Table Europe Market Sales Revenue Share by Type 2011-2017
Table Europe Market Sales Volume by Type 2011-2017
Table Europe Market Sales Volume Share by Type 2011-2017
Table Europe Price by Type 2011-2017
Table South America Market Sales Revenue by Type 2011-2017
Table South America Market Sales Revenue Share by Type 2011-2017
Table South America Market Sales Volume by Type 2011-2017
Table South America Market Sales Volume Share by Type 2011-2017
Table South America Price by Type 2011-2017
Table Middle East & Africa Market Sales Revenue by Type 2011-2017
Table Middle East & Africa Market Sales Revenue Share by Type 2011-2017
Table Middle East & Africa Market Sales Volume by Type 2011-2017
Table Middle East & Africa Market Sales Volume Share by Type 2011-2017
Table Middle East & Africa Price by Type 2011-2017
Table Global Market Sales Revenue by Application 2011-2017
Table Global Market Sales Revenue Share by Application 2011-2017
Table Global Market Sales Volume by Application 2011-2017
Table Global Market Sales Volume Share by Application 2011-2017
Table Global Price by Application 2011-2017
Table Asia-Pacific Market Sales Revenue by Application 2011-2017
Table Asia-Pacific Market Sales Revenue Share by Application 2011-2017
Table Asia-Pacific Market Sales Volume by Application 2011-2017
Table Asia-Pacific Market Sales Volume Share by Application 2011-2017
Table Asia-Pacific Price by Application 2011-2017
Table North America Market Sales Revenue by Application 2011-2017
Table North America Market Sales Revenue Share by Application 2011-2017
Table North America Market Sales Volume by Application 2011-2017
Table North America Market Sales Volume Share by Application 2011-2017

Table North America Price by Application 2011-2017

Table Europe Market Sales Revenue by Application 2011-2017

Table Europe Market Sales Revenue Share by Application 2011-2017

Table Europe Market Sales Volume by Application 2011-2017

Table Europe Market Sales Volume Share by Application 2011-2017

Table Europe Price by Application 2011-2017

Table South America Market Sales Revenue by Application 2011-2017

Table South America Market Sales Revenue Share by Application 2011-2017

Table South America Market Sales Volume by Application 2011-2017

Table South America Market Sales Volume Share by Application 2011-2017

Table South America Price by Application 2011-2017

Table Middle East & Africa Market Sales Revenue by Application 2011-2017

Table Middle East & Africa Market Sales Revenue Share by Application 2011-2017

Table Middle East & Africa Market Sales Volume by Application 2011-2017

Table Middle East & Africa Market Sales Volume Share by Application 2011-2017

Table Middle East & Africa Price by Application 2011-2017

Table Regional Export 2011-2017 (Value)

Table Regional Export 2011-2017 (Volume)

Table Regional Import 2011-2017 (Value)

Table Regional Import 2011-2017 (Volume)

Table Sales Revenue, Volume, Price, Cost and Margin of SB Boron

Table Sales Revenue, Volume, Price, Cost and Margin of H.C. Starck GmbH

Table Sales Revenue, Volume, Price, Cost and Margin of SkySpring Nanomaterials, Inc.

Table Sales Revenue, Volume, Price, Cost and Margin of CRS Chemicals

Table Sales Revenue, Volume, Price, Cost and Margin of Baoding Zhongpuruituo Technology

Table Sales Revenue, Volume, Price, Cost and Margin of New Metals and Chemicals Ltd.

Table Sales Revenue, Volume, Price, Cost and Margin of Yingkou Tanyun Chemical Research Institute Corporation

Table Sales Revenue, Volume, Price, Cost and Margin of Noah Technologies Corporation

Table Sales Revenue, Volume, Price, Cost and Margin of YingKou Liaobin Fine Chemicals

Table Sales Revenue, Volume, Price, Cost and Margin of Dandong Chemical Engineering Institute (DCEI)

Table Sales Revenue, Volume, Price, Cost and Margin of Liaoning Pengda Technology

Table Sales Revenue, Volume, Price, Cost and Margin of Tangshan Weihao

Magnesium Powder

List Of Figures

LIST OF FIGURES

- Figure 92%-95% Market Size and CAGR 2011-2017 (Value)
- Figure 92%-95% Market Size and CAGR 2011-2017 (Volume)
- Figure 92%-95% Market Forecast and CAGR 2018-2025 (Value)
- Figure 92%-95% Market Forecast and CAGR 2018-2025 (Volume)
- Figure 95%-99% Market Size and CAGR 2011-2017 (Value)
- Figure 95%-99% Market Size and CAGR 2011-2017 (Volume)
- Figure 95%-99% Market Forecast and CAGR 2018-2025 (Value)
- Figure 95%-99% Market Forecast and CAGR 2018-2025 (Volume)
- Figure >99% Market Size and CAGR 2011-2017 (Value)
- Figure >99% Market Size and CAGR 2011-2017 (Volume)
- Figure >99% Market Forecast and CAGR 2018-2025 (Value)
- Figure >99% Market Forecast and CAGR 2018-2025 (Volume)
- Figure Others Market Size and CAGR 2011-2017 (Value)
- Figure Others Market Size and CAGR 2011-2017 (Volume)
- Figure Others Market Forecast and CAGR 2018-2025 (Value)
- Figure Others Market Forecast and CAGR 2018-2025 (Volume)
- Figure Industrial field Market Size and CAGR 2011-2017 (Value)
- Figure Industrial field Market Size and CAGR 2011-2017 (Volume)
- Figure Industrial field Market Forecast and CAGR 2018-2025 (Value)
- Figure Industrial field Market Forecast and CAGR 2018-2025 (Volume)
- Figure Aerospace and the military field. Market Size and CAGR 2011-2017 (Value)
- Figure Aerospace and the military field. Market Size and CAGR 2011-2017 (Volume)
- Figure Aerospace and the military field. Market Forecast and CAGR 2018-2025 (Value)
- Figure Aerospace and the military field. Market Forecast and CAGR 2018-2025 (Volume)
- Figure Others Market Size and CAGR 2011-2017 (Value)
- Figure Others Market Size and CAGR 2011-2017 (Volume)
- Figure Others Market Forecast and CAGR 2018-2025 (Value)
- Figure Others Market Forecast and CAGR 2018-2025 (Volume)
- Figure Global High-purity Amorphous Boron Market Size and CAGR 2011-2017 (Value)
- Figure Global High-purity Amorphous Boron Market Size and CAGR 2011-2017 (Volume)
- Figure Global High-purity Amorphous Boron Market Forecast and CAGR 2018-2025 (Value)
- Figure Global High-purity Amorphous Boron Market Forecast and CAGR 2018-2025 (Volume)

(Volume)

Figure Asia-Pacific High-purity Amorphous Boron Market Size and CAGR 2011-2017

(Value)

Figure Asia-Pacific High-purity Amorphous Boron Market Size and CAGR 2011-2017

(Volume)

Figure Asia-Pacific High-purity Amorphous Boron Market Forecast and CAGR

2018-2025 (Value)

Figure Asia-Pacific High-purity Amorphous Boron Market Forecast and CAGR

2018-2025 (Volume)

Figure North America High-purity Amorphous Boron Market Size and CAGR 2011-2017

(Value)

Figure North America High-purity Amorphous Boron Market Size and CAGR 2011-2017

(Volume)

Figure North America High-purity Amorphous Boron Market Forecast and CAGR

2018-2025 (Value)

Figure North America High-purity Amorphous Boron Market Forecast and CAGR

2018-2025 (Volume)

Figure Europe High-purity Amorphous Boron Market Size and CAGR 2011-2017

(Value)

Figure Europe High-purity Amorphous Boron Market Size and CAGR 2011-2017

(Volume)

Figure Europe High-purity Amorphous Boron Market Forecast and CAGR 2018-2025

(Value)

Figure Europe High-purity Amorphous Boron Market Forecast and CAGR 2018-2025

(Volume)

Figure South America High-purity Amorphous Boron Market Size and CAGR 2011-2017

(Value)

Figure South America High-purity Amorphous Boron Market Size and CAGR 2011-2017

(Volume)

Figure South America High-purity Amorphous Boron Market Forecast and CAGR

2018-2025 (Value)

Figure South America High-purity Amorphous Boron Market Forecast and CAGR

2018-2025 (Volume)

Figure Middle East & Africa High-purity Amorphous Boron Market Size and CAGR
2011-2017 (Value)

Figure Middle East & Africa High-purity Amorphous Boron Market Size and CAGR
2011-2017 (Volume)

Figure Middle East & Africa High-purity Amorphous Boron Market Forecast and CAGR
2018-2025 (Value)

Figure Middle East & Africa High-purity Amorphous Boron Market Forecast and CAGR 2018-2025 (Volume)

Figure Global Market Sales Revenue Share by Company in 2017

Figure Global Market Sales Volume Share by Company in 2017

Figure Asia-Pacific Market Sales Revenue Share by Company in 2017

Figure Asia-Pacific Market Sales Volume Share by Company in 2017

Figure North America Market Sales Revenue Share by Company in 2017

Figure North America Market Sales Volume Share by Company in 2017

Figure Europe Market Sales Revenue Share by Company in 2017

Figure Europe Market Sales Volume Share by Company in 2017

Figure South America Market Sales Revenue Share by Company in 2017

Figure South America Market Sales Volume Share by Company in 2017

Figure Middle East & Africa Market Sales Revenue Share by Company in 2017

Figure Middle East & Africa Market Sales Volume Share by Company in 2017

Figure Global Market Sales Revenue Share by Type in 2017

Figure Global Market Sales Volume Share by Type in 2017

Figure Asia-Pacific Market Sales Revenue Share by Type in 2017

Figure Asia-Pacific Market Sales Volume Share by Type in 2017

Figure North America Market Sales Revenue Share by Type in 2017

Figure North America Market Sales Volume Share by Type in 2017

Figure Europe Market Sales Revenue Share by Type in 2017

Figure Europe Market Sales Volume Share by Type in 2017

Figure South America Market Sales Revenue Share by Type in 2017

Figure South America Market Sales Volume Share by Type in 2017

Figure Middle East & Africa Market Sales Revenue Share by Type in 2017

Figure Middle East & Africa Market Sales Volume Share by Type in 2017

Figure Global Market Sales Revenue Share by Application in 2017

Figure Global Market Sales Volume Share by Application in 2017

Figure Asia-Pacific Market Sales Revenue Share by Application in 2017

Figure Asia-Pacific Market Sales Volume Share by Application in 2017

Figure North America Market Sales Revenue Share by Application in 2017

Figure North America Market Sales Volume Share by Application in 2017

Figure Europe Market Sales Revenue Share by Application in 2017

Figure Europe Market Sales Volume Share by Application in 2017

Figure South America Market Sales Revenue Share by Application in 2017

Figure South America Market Sales Volume Share by Application in 2017

Figure Middle East & Africa Market Sales Revenue Share by Application in 2017

Figure Middle East & Africa Market Sales Volume Share by Application in 2017

Figure Industry Chain Overview

Figure High-purity Amorphous Boron SWOT List
Figure Pharma & Healthcare Porter's Five Forces

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