

Global High-purity Amorphous Boron Market Survey and Trend Research 2018

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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.

This report describes the development of the industry by upstream & downstream, industry overall and development, key companies, as well as type segment & market application and so on, and makes a scientific prediction for the development industry prospects on the basis of analysis, finally, analyzes opportunities for investment in the industry at the end of the report.

Industry Chain

Raw Materials

Cost

Technology

Consumer Preference

Industry Overall:

History

Development & Trend

Market Competition

Trade Overview

Policy

Region (North America, Europe, Asia-Pacific, South America, Middle East, Africa):

Regional Market

Production Development

Sales

Regional Trade

Regional Forecast

Company (SB Boron, H.C. Starck GmbH, SkySpring Nanomaterials, Inc., CRS Chemicals, New Metals and Chemicals Ltd., 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 etc.):

Company Profile

Product & Service

Business Operation Data

Market Share

Investment Analysis:

Market Features

Investment Opportunity

Investment Calculation

Contents

PART 1 INDUSTRY OVERVIEW

- 1.1 High-purity Amorphous Boron Industry
 - 1.1.1 Definition
 - 1.1.2 Industry Trend
- 1.2 Industry Chain
 - 1.2.1 Upstream
 - 1.2.2 Technology
 - 1.2.3 Cost Structure
 - 1.2.4 Consumer Preference
 - 1.2.2 Downstream

PART 2 INDUSTRY OVERALL

- 2.1 Industry History
- 2.2 Development Prospect
- 2.3 Competition Structure
- 2.4 Relevant Policy
- 2.5 Trade Overview

PART 3 HIGH-PURITY AMORPHOUS BORON MARKET BY PRODUCT

- 3.1 Products List of Major Companies
- 3.2 Market Size
- 3.3 Market Forecast

4 KEY COMPANIES LIST

- 4.1 SB Boron (Company Overview, Sales Data etc.)
 - 4.1.1 Company Overview
 - 4.1.2 Products and Services
 - 4.1.3 Business Analysis
- 4.2 H.C. Starck GmbH (Company Overview, Sales Data etc.)
 - 4.2.1 Company Overview
 - 4.2.2 Products and Services
 - 4.2.3 Business Analysis
- 4.3 SkySpring Nanomaterials, Inc. (Company Overview, Sales Data etc.)

- 4.3.1 Company Overview
- 4.3.2 Products and Services
- 4.3.3 Business Analysis
- 4.4 CRS Chemicals (Company Overview, Sales Data etc.)
 - 4.4.1 Company Overview
 - 4.4.2 Products and Services
 - 4.4.3 Business Analysis
- 4.5 New Metals and Chemicals Ltd. (Company Overview, Sales Data etc.)
 - 4.5.1 Company Overview
 - 4.5.2 Products and Services
 - 4.5.3 Business Analysis
- 4.6 New Metals and Chemicals Ltd. (Company Overview, Sales Data etc.)
 - 4.6.1 Company Overview
 - 4.6.2 Products and Services
 - 4.6.3 Business Analysis
- 4.7 Yingkou Tanyun Chemical Research Institute Corporation (Company Overview, Sales Data etc.)
 - 4.7.1 Company Overview
 - 4.7.2 Products and Services
 - 4.7.3 Business Analysis
- 4.8 Noah Technologies Corporation (Company Overview, Sales Data etc.)
 - 4.8.1 Company Overview
 - 4.8.2 Products and Services
 - 4.8.3 Business Analysis
- 4.9 YingKou Liaobin Fine Chemicals (Company Overview, Sales Data etc.)
 - 4.9.1 Company Overview
 - 4.9.2 Products and Services
 - 4.9.3 Business Analysis
- 4.10 Dandong Chemical Engineering Institute (DCEI) (Company Overview, Sales Data etc.)
 - 4.10.1 Company Overview
 - 4.10.2 Products and Services
 - 4.10.3 Business Analysis
- 4.11 Liaoning Pengda Technology (Company Overview, Sales Data etc.)
- 4.12 Tangshan Weihao Magnesium Powder (Company Overview, Sales Data etc.)

PART 5 MARKET COMPETITION

5.1 Companies Competition

5.2 Industry Competition Structure Analysis

- 5.2.1 Rivalry
- 5.2.2 Threat of New Entrants
- 5.2.3 Substitutes
- 5.2.4 Bargaining Power of Suppliers
- 5.2.5 Bargaining Power of Buyers

PART 6 MARKET DEMAND BY SEGMENT

6.1 Demand Situation

- 6.1.1 Industry Application Status
- 6.1.2 Industry SWOT Analysis
 - 6.1.2.1 Strengths
 - 6.1.2.2 Weaknesses
 - 6.1.2.3 Opportunities
 - 6.1.2.4 Threats

6.2 Major Customer Survey

6.3 Demand Forecast

PART 7 REGION OPERATION

7.1 Regional Market

7.2 Production and Sales by Region

- 7.2.1 Production
- 7.2.2 Sales
- 7.2.3 Trade

7.3 Regional Forecast

PART 8 MARKET INVESTMENT

8.1 Market Features

- 8.1.1 Product Features
- 8.1.2 Price Features
- 8.1.3 Channel Features
- 8.1.4 Purchasing Features

8.2 Investment Opportunity

- 8.2.1 Regional Investment Opportunity
- 8.2.2 Industry Investment Opportunity

8.3 Investment Calculation

8.3.1 Cost Calculation

8.3.2 Revenue Calculation

8.3.3 Economic Performance Evaluation

PART 9 CONCLUSION

List Of Tables

LIST OF TABLES

Table Global High-purity Amorphous Boron Market 2012-2017, by Type, in USD Million

Table Global High-purity Amorphous Boron Market 2012-2017, by Type, in Volume

Table Global High-purity Amorphous Boron Market Forecast 2018-2023, by Type, in USD Million

Table Global High-purity Amorphous Boron Market Forecast 2018-2023, by Type, in Volume

Table SB Boron Overview List

Table High-purity Amorphous Boron Business Operation of SB Boron (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table H.C. Starck GmbH Overview List

Table High-purity Amorphous Boron Business Operation of H.C. Starck GmbH (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table SkySpring Nanomaterials, Inc. Overview List

Table High-purity Amorphous Boron Business Operation of SkySpring Nanomaterials, Inc. (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table CRS Chemicals Overview List

Table High-purity Amorphous Boron Business Operation of CRS Chemicals (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table New Metals and Chemicals Ltd. Overview List

Table High-purity Amorphous Boron Business Operation of New Metals and Chemicals Ltd. (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table New Metals and Chemicals Ltd. Overview List

Table High-purity Amorphous Boron Business Operation of New Metals and Chemicals Ltd. (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Yingkou Tanyun Chemical Research Institute Corporation Overview List

Table High-purity Amorphous Boron Business Operation of Yingkou Tanyun Chemical Research Institute Corporation (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Noah Technologies Corporation Overview List

Table High-purity Amorphous Boron Business Operation of Noah Technologies Corporation (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table YingKou Liaobin Fine Chemicals Overview List

Table High-purity Amorphous Boron Business Operation of YingKou Liaobin Fine Chemicals (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Dandong Chemical Engineering Institute (DCEI) Overview List

Table High-purity Amorphous Boron Business Operation of Dandong Chemical Engineering Institute (DCEI) (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Liaoning Pengda Technology Overview List

Table High-purity Amorphous Boron Business Operation of Liaoning Pengda Technology (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Tangshan Weihao Magnesium Powder Overview List

Table High-purity Amorphous Boron Business Operation of Tangshan Weihao Magnesium Powder (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

Table Global High-purity Amorphous Boron Sales Revenue 2012-2017, by Companies, in USD Million

Table Global High-purity Amorphous Boron Sales Revenue Share, by Companies, in USD Million

Table Global High-purity Amorphous Boron Sales Volume 2012-2017, by Companies, in Volume

Table Global High-purity Amorphous Boron Sales Revenue Share, by Companies in 2017, in Volume

Table High-purity Amorphous Boron Demand 2012-2017, by Application, in USD Million

Table High-purity Amorphous Boron Demand 2012-2017, by Application, in Volume

Table High-purity Amorphous Boron Demand Forecast 2018-2023, by Application, in USD Million

Table High-purity Amorphous Boron Demand Forecast 2018-2023, by Application, in Volume

Table Global High-purity Amorphous Boron Market 2012-2017, by Region, in USD Million

Table Global High-purity Amorphous Boron Market 2012-2017, by Region, in Volume

Table High-purity Amorphous Boron Market Forecast 2018-2023, by Region, in USD Million

Table High-purity Amorphous Boron Market Forecast 2018-2023, by Region, in Volume

List Of Figures

LIST OF FIGURES

Figure High-purity Amorphous Boron Industry Chain Structure

Figure Global High-purity Amorphous Boron Market Growth 2012-2017, by Type, in USD Million

Figure Global High-purity Amorphous Boron Market Growth 2012-2017, by Type, in Volume

Figure Global High-purity Amorphous Boron Sales Revenue Share, by Companies in 2017, in USD Million

Figure Global High-purity Amorphous Boron Sales Volume Share 2012-2017, by Companies, in Volume

Figure Production Development by Region

Figure Sales List by Region

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