



Global High-purity Amorphous Boron Industry Growth and Trends Forecast to 2032

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Chemical & Material	2025-12-20	105	PDF
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Description

High purity amorphous boron powder is black whereas impure samples have a brown appearance. Due to its special combination of properties as well as the ability to absorb neutrons, large quantities of amorphous boron are used in pyrotechnics. For example, it is to be used as an additive in solid-fuel rocket propellant and explosives, in initiators for airbags and belt pre-tensioners, and as an additive in pyrotechnical mixtures. In addition, as a powerful reducing agent it can also be added to certain soldering agents as a flux or additive. Other application areas include the manufacture of high-purity metal borides and use as a sintering additive for silicon carbide high-performance ceramics.

Global High-purity Amorphous Boron key players include SB Boron, H.C. Starck GmbH, SkySpring Nanomaterials, Inc., CRS Chemicals, etc.

In terms of product, 95%-99% is the largest segment, with a share about 50%. And in terms of application, the largest application is Industrial field, followed by Aerospace and the military field, etc.

Report Scope

This report provides a structured, data-driven view of the global High-purity Amorphous Boron market, combining harmonized quantitative metrics with targeted qualitative insight to support business and growth strategy, market positioning, and capital allocation.

The High-purity Amorphous Boron market size, estimates, and forecasts are presented in terms of sales volume (Tonnes) and revenue (US\$ million), with 2025 as the base year and historical and forecast data for 2021-2032. The report segments the global High-purity Amorphous Boron market by Type, Application, region/country, and company, provides regional market sizes at the segment level, profiles the competitive landscape and key players and their market ranks, and reviews technology trends and new product developments relevant to High-purity Amorphous Boron.

Key Companies & Market Share Insights

This section analyzes the strategies and performance of leading manufacturers in the global High-purity Amorphous Boron market, including portfolio focus, innovation and product development, mergers and acquisitions, collaborations, and geographic expansion used to sustain or enhance competitive positions. It also summarizes recent corporate developments and key financial indicators and provides global revenue, price, and sales volume data by manufacturer for 2020-2025, enabling benchmarking of scale, pricing, and market share and supporting assessment of market concentration through indicators such as CR5 and CR10.

High-purity Amorphous Boron Market 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

High-purity Amorphous Boron Segment by Type

92%-95%

95%-99%

Over 99%

Others

High-purity Amorphous Boron Segment by Application

Industrial Field

Aerospace And The Military Field

Others

High-purity Amorphous Boron Segment by Region

North America

United States

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Spain

Netherlands

Switzerland

Sweden

Poland

Asia-Pacific

China

Japan

South Korea

India

Australia

Taiwan

Southeast Asia

South America

Brazil

Argentina

Chile
Colombia
Middle East & Africa
Egypt
South Africa
Israel
Türkiye
GCC Countries

Key Drivers & Barriers

High-impact rendering factors and drivers have been studied in this report to aid the readers to understand the general development. Moreover, the report includes restraints and challenges that may act as stumbling blocks on the way of the players. This will assist the users to be attentive and make informed decisions related to business. Specialists have also laid their focus on the upcoming business prospects.

Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global High-purity Amorphous Boron market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.
2. This report will help stakeholders to understand the global industry status and trends of High-purity Amorphous Boron and provides them with information on key market drivers, restraints, challenges, and opportunities.
3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.
4. This report stays updated with novel technology integration, features, and the latest developments in the market.
5. This report helps stakeholders to gain insights into which regions to target globally.
6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of High-purity Amorphous Boron.
7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

Chapter Outline

Chapter 1:

Introduces the study scope of this report, executive summary of market segments by type, market size segments for North America, Europe, Asia Pacific, South America, Middle East & Africa.

Chapter 2:

Introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 3:

Detailed analysis of High-purity Amorphous Boron manufacturers competitive landscape, price, sales, revenue, market share and ranking, latest development plan, merger, and acquisition information, etc.

Chapter 4:

Sales, revenue of High-purity Amorphous Boron in regional level. It provides a quantitative analysis of the market size and development potential of each region and introduces the future development prospects, and market space in the world.

Chapter 5:

Introduces market segments by application, market size segment for North America, Europe, Asia Pacific, South America, Middle East & Africa.

Chapter 6:

Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product sales, revenue, price, gross margin, product introduction, recent development, etc.

Chapter 7, 8, 9, 10 and 11: North America, Europe, Asia Pacific, South America, Middle East & Africa, sales and revenue by country.

Chapter 12:

Analysis of industrial chain, key raw materials, manufacturing cost, and market dynamics.

Chapter 13:

Concluding Insights of the report.

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