

Global High-purity Amorphous Boron Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High-purity Amorphous Boron market size is expected to reach \$ 434 million by 2032, rising at a market growth of 2.9% CAGR during the forecast period (2026-2032).

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.

This report studies the global High-purity Amorphous Boron production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High-purity Amorphous Boron and provides market size (US\$ million) and Year-over-Year (YoY)

Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of High-purity Amorphous Boron that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High-purity Amorphous Boron total production and demand, 2021-2032, (Tonnes)

Global High-purity Amorphous Boron total production value, 2021-2032, (USD Million)

Global High-purity Amorphous Boron production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tonnes), (based on production site)

Global High-purity Amorphous Boron consumption by region & country, CAGR, 2021-2032 & (Tonnes)

U.S. VS China: High-purity Amorphous Boron domestic production, consumption, key domestic manufacturers and share

Global High-purity Amorphous Boron production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tonnes)

Global High-purity Amorphous Boron production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tonnes)

Global High-purity Amorphous Boron production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tonnes)

This report profiles key players in the global High-purity Amorphous Boron market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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), etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World High-purity Amorphous Boron market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tonnes) and average price (USD/Kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global High-purity Amorphous Boron Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High-purity Amorphous Boron Market, Segmentation by Type:

92%-95%

95%-99%

Over 99%

Others

Global High-purity Amorphous Boron Market, Segmentation by Application:

Industrial Field

Aerospace And The Military Field

Others

Companies Profiled:

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

Key Questions Answered:

1. How big is the global High-purity Amorphous Boron market?
2. What is the demand of the global High-purity Amorphous Boron market?
3. What is the year over year growth of the global High-purity Amorphous Boron market?
4. What is the production and production value of the global High-purity Amorphous Boron market?
5. Who are the key producers in the global High-purity Amorphous Boron market?
6. What are the growth factors driving the market demand?

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