

Global High-purity Amorphous Boron Powder Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global High-purity Amorphous Boron Powder market size was valued at US\$ 43.9 million in 2024 and is forecast to a readjusted size of USD 58.1 million by 2031 with a CAGR of 4.1% during review period.

Amorphous boron is also called amorphous elemental boron, monolithic boron. It is a full-color powder or gray shiny crystal with more lively chemical properties. The purity of high-purity amorphous boron powder is not less than 90%.

Major Players: The major players in the high - purity amorphous boron powder market include H?gan?s, SB Boron, PavTec, Dandong Chemical Engineering Institute and Yingkou Liaobin Fine Chemical are significant players. These companies, with their unique technological capabilities and market strategies, jointly influence the supply and development of high - purity amorphous boron powder in the global market.

Market Opportunities and Drivers: Advanced Materials in Aerospace: High - purity amorphous boron powder's unique properties, like high energy density and lightweight characteristics, make it ideal for aerospace applications. Energy Storage Innovations: In the energy storage sector, especially in lithium - ion batteries, high - purity amorphous boron powder shows great potential. Emerging Technologies: In emerging fields such as 3D printing and nanotechnology, high - purity amorphous boron powder can be used to create novel materials with enhanced properties.

Market Challenges: The production of high - purity amorphous boron powder involves complex chemical processes and high - temperature treatments, which significantly increase production costs. This high cost limits its widespread use, particularly in price -

sensitive markets. Currently, there is a lack of unified international standards for high - purity amorphous boron powder. This makes it difficult for customers to compare products from different manufacturers, leading to market inefficiencies and potential quality issues.

Demand Trends: As industries such as semiconductors and medical devices become more advanced, the demand for even higher purity amorphous boron powder is increasing. These industries require materials with extremely low impurity levels to ensure product performance and reliability. Different applications have specific requirements for the properties of high - purity amorphous boron powder, such as particle size, shape, and chemical composition. The market is seeing a growing trend towards the production of custom - made products to meet these diverse needs.

This report is a detailed and comprehensive analysis for global High-purity Amorphous Boron Powder market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global High-purity Amorphous Boron Powder market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2020-2031

Global High-purity Amorphous Boron Powder market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2020-2031

Global High-purity Amorphous Boron Powder market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2020-2031

Global High-purity Amorphous Boron Powder market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Kg), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for High-purity Amorphous Boron Powder
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global High-purity Amorphous Boron Powder market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include H?gan?s, SB Boron, PavTec, Borman, SkySpring Nanomaterials, Noah Chemicals, Dandong Chemical Engineering Institute, Yingkou Liaobin Fine Chemical, Liaoning Boron Technology, NewMet Ltd, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

High-purity Amorphous Boron Powder market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Purity ?90%

Purity ?95%

Market segment by Application

Metallurgy Industry

Automotive

Aerospace and Defense

Ceramic Industry

Others

Major players covered

H?gan?s

SB Boron

PavTec

Borman

SkySpring Nanomaterials

Noah Chemicals

Dandong Chemical Engineering Institute

Yingkou Liaobin Fine Chemical

Liaoning Boron Technology

NewMet Ltd

Rose Mill Company

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Global High-purity Amorphous Boron Powder Market 2025 by Manufacturers, Regions, Type and Application, Forecas...

Chapter 1, to describe High-purity Amorphous Boron Powder product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High-purity Amorphous Boron Powder, with price, sales quantity, revenue, and global market share of High-purity Amorphous Boron Powder from 2020 to 2025.

Chapter 3, the High-purity Amorphous Boron Powder competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High-purity Amorphous Boron Powder breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and High-purity Amorphous Boron Powder market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of High-purity Amorphous Boron Powder.

Chapter 14 and 15, to describe High-purity Amorphous Boron Powder sales channel, distributors, customers, research findings and conclusion.

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