

Global High-purity Amorphous Boron Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

https://marketpublishers.com/r/GC988C0E252EN.html

Date: January 2024

Pages: 115

Price: US\$ 3,480.00 (Single User License)

ID: GC988C0E252EN

Abstracts

According to our (Global Info Research) latest study, the global High-purity Amorphous Boron market size was valued at USD 326.2 million in 2023 and is forecast to a readjusted size of USD 397.7 million by 2030 with a CAGR of 2.9% during review period.

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.

The Global Info Research report includes an overview of the development of the High-purity Amorphous Boron industry chain, the market status of Industrial Field (92%-95%, 95%-99%), Aerospace And The Military Field (92%-95%, 95%-99%), and key



enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of High-purity Amorphous Boron.

Regionally, the report analyzes the High-purity Amorphous Boron markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global High-purity Amorphous Boron market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the High-purity Amorphous Boron market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the High-purity Amorphous Boron industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Tonnes), revenue generated, and market share of different by Type (e.g., 92%-95%, 95%-99%).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the High-purity Amorphous Boron market.

Regional Analysis: The report involves examining the High-purity Amorphous Boron market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the High-purity Amorphous Boron market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to High-purity Amorphous Boron:



Company Analysis: Report covers individual High-purity Amorphous Boron manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards High-purity Amorphous Boron This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Industrial Field, Aerospace And The Military Field).

Technology Analysis: Report covers specific technologies relevant to High-purity Amorphous Boron. It assesses the current state, advancements, and potential future developments in High-purity Amorphous Boron areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the High-purity Amorphous Boron market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

High-purity Amorphous Boron market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

92%-95%

95%-99%

Over 99%

Others



Market segment by Application

Industrial Field

Aerospace And The Military Field

Others

Major players covered

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

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:

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

Chapter 2, to profile the top manufacturers of High-purity Amorphous Boron, with price, sales, revenue and global market share of High-purity Amorphous Boron from 2019 to 2024.

Chapter 3, the High-purity Amorphous Boron 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 breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023.and High-purity Amorphous Boron market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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.

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



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