

Global Fine Amorphous Boron Powder Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Fine Amorphous Boron Powder market size was valued at US\$ 60.50 million in 2025 and is forecast to a readjusted size of US\$ 77.81 million by 2032 with a CAGR of 3.4% during review period.

Fine Amorphous Boron Powder is a high-purity, non-crystalline elemental boron material produced through vapor deposition, magnesiothermic reduction, or chemical reduction processes, characterized by extremely small particle size (generally 0.1–15 μm), high surface activity, and strong chemical reactivity, widely used in pyrotechnics, rocket propellants, energetic materials, metal-boride synthesis, semiconductors, and high-performance alloys.

The fine amorphous boron powder industry chain begins upstream with elemental boron raw materials, boron oxide (B_2O_3), magnesium reductants, hydrogen gas, and high-purity processing reactants supplied by chemical and mineral producers; the midstream involves manufacturers who perform magnesiothermic reduction, hydrogen reduction, vapor deposition, purification, micronization, classification, passivation, and packaging to produce fine amorphous boron of various purities and particle sizes; downstream buyers include aerospace propellant companies, pyrotechnic manufacturers, ceramic and metal boride producers, semiconductor fabs, and research institutions that use boron powder in energetic devices, high-temperature materials, alloying, coatings, and advanced electronics manufacturing.

Production of fine amorphous boron powder utilizes highly controlled processes such as magnesiothermic reduction of B_2O_3 or hydrogen reduction of boron halides, followed by

acid leaching, impurity removal, and thermal treatment to achieve high purity; fine particle sizes are achieved through micronization, jet milling, inert gas grinding, or vapor deposition routes, with post-processing steps including sieving, passivation to stabilize surface activity, and oxygen control to maintain reactivity, while advanced facilities employ CVD or plasma methods to reduce crystalline formation, producing highly reactive, uniform, ultra-pure amorphous boron suitable for propellants, ceramics, electronics, and metal-boride synthesis.

In 2025, the global market sales 2,800 tons, with an average global market price of USD 21,000 per ton, and market average gross profit margin of around 28%.

This report is a detailed and comprehensive analysis for global Fine 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 Fine Amorphous Boron Powder market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Fine Amorphous Boron Powder market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Fine 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), 2021-2032

Global Fine Amorphous Boron Powder market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/kg), 2021-2026

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 Fine 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 Fine 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 Hoganas, SB Boron, CRS Chemicals, Dandong Chemical Engineering Institute (DCEI), Liaoning Boron Technology Co.,LTD, Baoding Pengda New Materials Technology Co., Ltd, etc.

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

Market Segmentation

Fine Amorphous Boron Powder market is split by Type and by Application. For the period 2021-2032, 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

From 92% to 95%

From 96% to 99%

Above 99%

Others

Market segment by Particle Size

Coarse Fine Boron (5–15 μm)

Standard Fine Boron (1–5 μm)

Ultrafine Boron (0.5–1 μm)

Nano-Boron (

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