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Global Fine Amorphous Boron Powder Market Growth 2026-2032

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Abstracts

The global Fine Amorphous Boron Powder market size is predicted to grow from US$ 57.52 million in 2025 to US$ 74.90 million in 2032; it is expected to grow at a CAGR of 3.7% from 2026 to 2032.

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?O?), 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?O? 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

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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%.

United States market for Fine Amorphous Boron Powder is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Fine Amorphous Boron Powder is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Fine Amorphous Boron Powder is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Fine Amorphous Boron Powder players cover H?gan?s, SB Boron, CRS Chemicals, Dandong Chemical Engineering Institute (DCEI), Liaoning Boron Technology Co.,LTD, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the “Fine Amorphous Boron Powder Industry Forecast” looks at past sales and reviews total world Fine Amorphous Boron Powder sales in 2025, providing a comprehensive analysis by region and market sector of projected Fine Amorphous Boron Powder sales for 2026 through 2032. With Fine Amorphous Boron Powder sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Fine Amorphous Boron Powder industry.

This Insight Report provides a comprehensive analysis of the global Fine Amorphous Boron Powder landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Fine Amorphous Boron Powder portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Fine Amorphous Boron Powder market.

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This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Fine Amorphous Boron Powder and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Fine Amorphous Boron Powder.

This report presents a comprehensive overview, market shares, and growth opportunities of Fine Amorphous Boron Powder market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

From 92% to 95%

From 96% to 99%

Above 99%

Others

Segmentation 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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Contents

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List Of Tables

LIST OF TABLES

+357 96 030922
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List Of Figures

LIST OF FIGURES

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