

Global Metallic Boride Powder Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Metallic Boride Powder market size is expected to reach \$ 293 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

Metallic Boride Powder refers to a class of high-performance non-oxide powders mainly represented by titanium boride, zirconium boride, lanthanum hexaboride, and other metallic borides. These materials offer high melting point, high hardness, excellent wear resistance, good electrical and thermal conductivity, and strong thermal stability, and are mainly used in wear-resistant and protective coatings, conductive ceramics and evaporation boat materials, high-temperature structural and thermal protection materials, refractory and metallurgical materials, cutting tools and wear-resistant composites, as well as electron emission and electronic functional materials. Upstream raw materials mainly include titanium, zirconium, lanthanum and related metals or metal oxides, boron powder, and other auxiliary reaction materials. Major downstream customers include advanced ceramics manufacturers, evaporation boat and metallization material producers, thermal spraying and surface engineering companies, refractory manufacturers, hard tool and wear-resistant composite suppliers, as well as aerospace and defense-related material developers and end users. In 2025, the global Metallic Boride Powder market is estimated to have a total capacity of about 2,680 tons and shipments of about 1,947 tons, with an average ex-factory price of about USD 92.6/kg and a gross margin of about 28%-41%. Overall, titanium boride powder remains the core volume segment of the market, while zirconium boride and lanthanum hexaboride are more concentrated in mid- to high-end applications with stricter performance requirements.

The Metallic Boride Powder market is currently characterized by a relatively niche scale, high technical barriers, and strong application orientation. Compared with general metal

powders or basic ceramic powders, these materials are more closely tied to high-end manufacturing and specialty industrial uses, where downstream customers usually place strict requirements on performance, consistency, and long-term reliability. Demand is mainly concentrated in wear protection, conductive ceramics, high-temperature structures, thermal protection systems, electronic functional materials, and selected reinforcement applications. Market competition is therefore driven less by low-price expansion and more by purity control, particle size distribution, impurity management, sintering behavior, and customization capability. Companies with stable supply quality and strong application development support are generally better positioned in higher-value segments.

Looking ahead, the market is expected to maintain steady growth, supported by continued upgrades in advanced manufacturing, thermal protection, precision processing, and functional materials. Traditional applications such as conductive ceramics, evaporation materials, wear-resistant coatings, and tool materials are likely to remain the foundation of demand. At the same time, rising performance requirements in aerospace, thermal protection structures, electron emission devices, and selected high-performance composite systems are expected to strengthen demand for mid- to high-end metallic boride powders. The market is also moving toward closer integration between powder design and downstream processing needs, including morphology control, forming compatibility, sintering optimization, and service life improvement. As a result, competition is gradually shifting from simple material supply toward broader solution capability.

The main growth drivers come from the combination of intrinsic material advantages and downstream technology upgrading. Metallic Boride Powder offers a valuable mix of high melting point, high hardness, wear resistance, conductivity, and thermal stability, which gives it strong relevance in demanding applications where conventional materials may face clear performance limitations. As downstream industries continue to pursue higher efficiency, better reliability, and stronger resistance to severe operating conditions, the role of these powders in material substitution and performance enhancement is likely to expand. In addition, the improving manufacturing capabilities of some regional suppliers in advanced ceramics, ultra-high-temperature materials, and specialty powders are helping broaden the supply base, enrich product offerings, and support wider industrial adoption.

At the same time, the industry still faces several constraints. End-use applications are relatively specialized, and many of the underlying segments are not large on their own, which limits the possibility of rapid short-term expansion. Product performance is also

highly dependent on raw material quality, process control, and post-treatment capability, making cost control, yield improvement, and batch consistency long-term challenges for producers. In high-end markets, customer qualification cycles are often lengthy and entry barriers remain high, so new suppliers usually need significant time to build technical credibility. In addition, fluctuations in raw material costs, changes in trade conditions, and uncertainty in some advanced industrial sectors may affect profitability and expansion plans. Overall, the market has solid long-term potential, but its development path is more likely to be driven by technology advancement, deeper application penetration, and structural upgrading rather than by rapid volume expansion alone.

This report studies the global Metallic Boride Powder production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Metallic Boride Powder 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 Metallic Boride Powder that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Metallic Boride Powder total production and demand, 2021-2032, (Tons)

Global Metallic Boride Powder total production value, 2021-2032, (USD Million)

Global Metallic Boride Powder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Metallic Boride Powder consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Metallic Boride Powder domestic production, consumption, key domestic manufacturers and share

Global Metallic Boride Powder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Metallic Boride Powder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Metallic Boride Powder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Metallic Boride Powder 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 Hoganäs, Materion, Momenite Technologies, 3M, Huawei Aerospace, Treibacher, PENSIC, Longji New Materials Technology, Dandong Rijing, Shanghai Chaowei Nano Technology, 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 Metallic Boride Powder market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/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 Metallic Boride Powder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Metallic Boride Powder Market, Segmentation by Type:

Titanium Boride Powder

Zirconium Boride Powder

Lanium Hexaboride Powder

Others

Global Metallic Boride Powder Market, Segmentation by Crystal Chemistry:

Monoboride Powder

Diboride Powder

Hexaboride Powder

Others

Global Metallic Boride Powder Market, Segmentation by Grade:

Thermal Spraying Grade

Conductive Ceramic Grade

Evaporation Boat Grade

Refractory Grade

Others

Global Metallic Boride Powder Market, Segmentation by Application:

Aerospace and Defense

Metallurgy and High-temperature Industries

Electronics and Electrical

Machining and Surface Engineering

Others

Companies Profiled:

Hoganas

Materion

Momentive Technologies

3M

Huawei Aerospace

Treibacher

PENSC

Longji New Materials Technology

Dandong Rijin

Shanghai Chaowei Nano Technology

Key Questions Answered:

1. How big is the global Metallic Boride Powder market?
2. What is the demand of the global Metallic Boride Powder market?
3. What is the year over year growth of the global Metallic Boride Powder market?
4. What is the production and production value of the global Metallic Boride Powder market?
5. Who are the key producers in the global Metallic Boride Powder market?
6. What are the growth factors driving the market demand?

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