

Global Binary Boride Ceramics Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GFCC85CE2E9EEN.html>

Date: June 2026

Pages: 106

Price: US\$ 4,480.00 (Single User License)

ID: GFCC85CE2E9EEN

Abstracts

The global Binary Boride Ceramics market size is expected to reach \$ 189 million by 2032, rising at a market growth of 5.6% CAGR during the forecast period (2026-2032).

Binary Boride Ceramics in this report refer to a class of advanced non-oxide ceramic feedstock powders mainly represented by titanium boride ceramic powders, zirconium boride ceramic powders, and a limited volume of other binary boride ceramic powders. Common binary boride ceramics include titanium diboride (TiB₂), zirconium diboride (ZrB₂), and chromium diboride (CrB₂). These materials offer high melting point, high hardness, good electrical and thermal conductivity, excellent wear resistance, 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, as well as cutting tools and wear-resistant composites. Upstream raw materials mainly include titanium, zirconium, chromium 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 Binary Boride Ceramics market is estimated to have a total capacity of about 2,050 tons and shipments of about 1,486 tons, with an average ex-factory price of about USD 84.3/kg and a gross margin of about 27%-39%. Overall, titanium boride ceramic powder remains the core volume segment of the market, while zirconium boride ceramic powder is more concentrated in mid- to high-end applications with stricter performance requirements.

The Binary Boride Ceramics market is currently positioned as a specialized segment

within advanced non-oxide ceramics. Although it is not a bulk material market, it plays an important strategic role in high-performance applications involving high-temperature resistance, protection, conductivity, and wear performance. Current demand is mainly centered on mainstream systems such as titanium diboride and zirconium diboride. Titanium diboride powders have a more mature commercial base and are widely associated with conductive ceramics, evaporation boat composites, hot-pressed protective materials, and selected wear-resistant systems, while zirconium diboride powders are more closely linked to ultra-high-temperature ceramics, thermal protection systems, and high-temperature structural uses. At present, competition is driven less by simple pricing and more by powder purity, oxygen control, particle size distribution, sintering activity, batch consistency, and the ability to match downstream process requirements. Customers are more concerned with whether the powder can deliver stable performance in hot pressing, sintering, compounding, or coating processes than with raw material cost alone.

From the supply side, the market is still led by a limited number of companies with experience in advanced ceramic powders, refractory compounds, or specialty inorganic materials, and the overall entry threshold remains relatively high. The production of binary boride ceramic powders generally requires strict control over raw material purity, reaction routes, impurity management, post-treatment, powder milling, and grading capability. In addition, different customers often require distinct particle size ranges, specific surface areas, and sintering characteristics. As a result, the market is not purely based on standardized large-volume supply, but shows a strong degree of customization and joint application development. In conductive ceramics, evaporation boats, high-temperature composites, and thermal protection applications in particular, downstream users usually place greater value on long-term supply stability and technical support, which favors suppliers with proven material design and application validation capability.

Over the next several years, the Binary Boride Ceramics powder market is expected to maintain steady development, mainly supported by continued upgrades in advanced manufacturing, thermal protection, surface engineering, and functional ceramics. Traditional demand from conductive ceramics, evaporation materials, wear-resistant composite systems, and selected refractory uses is likely to remain important, while increasing performance requirements in aerospace thermal protection, armor protection, high-temperature furnace components, and high-performance composite materials are expected to deepen the role of binary boride powders in mid- to high-end applications. Future competition is also likely to shift from simple powder supply toward broader solution capability covering forming, hot pressing, sintering, compounding, and in-

service performance. Suppliers that can optimize particle size design, purity level, and system compatibility according to customer processes are more likely to strengthen their market position.

At the same time, the industry still faces several practical constraints. Many downstream applications remain highly specialized, and a large number of end-use segments are limited in size, which makes demand expansion relatively gradual rather than explosive. In addition, the strict requirements on purity, impurity control, and particle size stability continue to challenge producers in yield improvement, cost control, and stable large-scale production. High-end customers also tend to have long qualification cycles and demanding entry standards, so new suppliers usually need considerable time to accumulate validation records and commercial trust. Furthermore, fluctuations in raw material costs, changes in trade conditions, and uncertainty in demand from certain advanced industrial sectors may all affect profitability and expansion decisions. Overall, the market has solid long-term potential, but its development path is more likely to be driven by technical progress, deeper application penetration, and structural upgrading than by rapid short-term expansion.

This report studies the global Binary Boride Ceramics production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Binary Boride Ceramics total production and demand, 2021-2032, (Tons)

Global Binary Boride Ceramics total production value, 2021-2032, (USD Million)

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

Global Binary Boride Ceramics consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Binary Boride Ceramics domestic production, consumption, key domestic manufacturers and share

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

Global Binary Boride Ceramics production by Type, production, value, CAGR,

2021-2032, (USD Million) & (Tons)

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

This report profiles key players in the global Binary Boride Ceramics 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 Hoganas, Materion, Momentive Technologies, 3M, Huawei Aerospace, Treibacher, PENSC, Longji New Materials Technology, Dandong Rijin, 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 Binary Boride Ceramics 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 Binary Boride Ceramics Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Binary Boride Ceramics Market, Segmentation by Type:

Zirconium Diboride

Titanium Diboride

Chromium Diboride

Others

Global Binary Boride Ceramics Market, Segmentation by Function:

Wear-resistant Materials

Conductive Materials

High-temperature and Thermal Protection Materials

Others

Global Binary Boride Ceramics Market, Segmentation by Grade:

Thermal Spraying Grade

Conductive Ceramic Grade

Evaporation Boat Grade

Refractory Grade

Others

Global Binary Boride Ceramics 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 Binary Boride Ceramics market?
2. What is the demand of the global Binary Boride Ceramics market?

3. What is the year over year growth of the global Binary Boride Ceramics market?
4. What is the production and production value of the global Binary Boride Ceramics market?
5. Who are the key producers in the global Binary Boride Ceramics market?
6. What are the growth factors driving the market demand?

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