

# **Zirconium Boride Global Market Insights 2025, Analysis and Forecast to 2030, by Manufacturers, Regions, Technology, Application**

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## **Abstracts**

### **Zirconium Boride Market Summary**

#### **Introduction**

Zirconium Boride ( $\text{ZrB}_2$ ) is an ultra-high-temperature ceramic (UHTC) known for its exceptional thermal stability, hardness, and oxidation resistance, making it ideal for applications in aerospace, sputter targets, and high-temperature ceramics. The zirconium boride industry is characterized by its niche role in extreme environment applications, driven by demand for materials that withstand high temperatures and corrosive conditions. Key trends include the development of nanostructured zirconium boride for enhanced performance, sustainable production methods, and increased adoption in aerospace and electronics. The market is propelled by growth in aerospace manufacturing and advancements in coating technologies, particularly in North America and Asia Pacific.

#### **Market Size and Growth Forecast**

The global Zirconium Boride market was valued at USD 90–150 million in 2024, with an estimated CAGR of 6.0%–8.0% from 2025 to 2030, driven by demand in aerospace and UHTCs.

#### **Regional Analysis**

North America is projected to grow at a CAGR of 5.8%–7.8%, with the U.S. leading due to its aerospace and defense sectors, focusing on high-purity zirconium boride.

Europe is expected to achieve a CAGR of 5.5%–7.5%, with Germany driving demand through its aerospace and coating industries.

Asia Pacific is anticipated to record the highest growth at 6.5%–8.5%, led by China, where aerospace and electronics manufacturing fuel demand, with trends toward cost-effective production.

Rest of the World, particularly Brazil, is expected to grow at 5.3%–7.3%, with trends toward industrial applications.

### Application Analysis

Ultra-high-temperature ceramic applications are estimated to grow at a CAGR of 6.3%–8.3%, driven by zirconium boride's use in aerospace components, with trends toward nanostructured materials.

Sputter target applications are projected to expand at 6.0%–8.0%, supported by demand in electronics coatings, with innovations in high-purity targets.

Other applications, including refractory linings, are anticipated to grow at 5.5%–7.5%, with advancements in thermal protection systems.

### Key Market Players

Daiichi Kigenso Kagaku Kogyo, headquartered in Osaka, Japan, produces zirconium boride for ceramics and coatings, known for its advanced material solutions.

H?gan?s, based in H?gan?s, Sweden, offers zirconium boride for high-temperature applications, focusing on innovative powders.

Treibacher Industrie, headquartered in Althofen, Austria, provides zirconium boride for sputter targets, emphasizing high-performance ceramics.

Hunan Junhang Materials Technology, based in Hunan, China, specializes in zirconium boride for aerospace, focusing on automated production.

Hunan Huawei Jingcheng Material Technology, headquartered in Hunan, China, produces zirconium boride for industrial applications, known for its scalable

manufacturing.

### Porter's Five Forces Analysis

The threat of new entrants is low; high R&D and production costs create significant barriers.

The threat of substitutes is moderate; alternative UHTCs like titanium boride compete, but zirconium boride's unique properties maintain its edge.

Buyer power is moderate; aerospace and electronics manufacturers negotiate pricing, but specialized applications limit leverage.

Supplier power is moderate; zirconium and boron supply volatility impacts costs, but multiple sources reduce influence.

Competitive rivalry is high; players differentiate through nanostructured and high-purity formulations.

### Market Opportunities and Challenges

#### Opportunities

Growth in aerospace and defense drives zirconium boride demand.

Expansion of UHTC applications in electronics enhances market opportunities.

Emerging markets in Asia Pacific offer growth potential due to industrial growth.

#### Challenges

High production costs for nanostructured grades limit adoption.

Regulatory scrutiny on ceramic production increases compliance costs.

Competition from alternative UHTCs challenges market share.

## Growth Trend Analysis

The Zirconium Boride market is growing steadily, driven by demand in aerospace and UHTCs. Hunan Huawei Jingcheng Material Technology currently has a zirconium boride capacity of 1–3 tons. Hunan Junhang Materials Technology, with a current capacity of 1 ton, plans to invest CNY 7 million to increase automation and achieve a 20-ton capacity for advanced powder materials, raising its zirconium boride capacity to 2 tons. These developments align with a projected CAGR of 6.0%–8.0% through 2030, reflecting zirconium boride's role in high-temperature ceramics.

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Market Share

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