

Global Zirconium Diboride (ZrB₂) Market Growth 2026-2032

<https://marketpublishers.com/r/ZDF512EC133BEN.html>

Date: January 2025

Pages: 91

Price: US\$ 3,660.00 (Single User License)

ID: ZDF512EC133BEN

Abstracts

The global Zirconium Diboride (ZrB₂) market size is predicted to grow from US\$ 47.11 million in 2025 to US\$ 75.37 million in 2032; it is expected to grow at a CAGR of 6.9% from 2026 to 2032.

Zirconium diboride (ZrB₂) is a highly covalent refractory ceramic material with a hexagonal crystal structure. ZrB₂ is an ultra-high temperature ceramic with a melting point of 3246°. Its relatively low density (approximately 6.09 g/cm³) and good high-temperature strength make it a candidate material for high-temperature aerospace applications such as hypersonic flight or rocket propulsion systems. In 2024, global zirconium diboride production reached approximately 366 tons, with an average global market price of around US\$ 110-150 per kg and gross margin of 40%-50%. The upstream of zirconium diboride powder cover supply of zirconium metal or zirconium oxide, boric compounds, elemental boron, and carbon sources. The midstream stage encompasses the main synthesis processes—including carbothermal reduction, boron carbide reduction, and self-propagating high-temperature synthesis (SHS)—followed by milling, classification, purification, and particle-size refinement.

The Zirconium Diboride market is primarily driven by the expanding adoption of ultra-high-temperature ceramics (UHTCs) and the continuous technological advancement in the aerospace and defense sectors. ZrB₂ offers a unique combination of an extremely high melting point, excellent mechanical strength at elevated temperatures, high thermal conductivity, and strong thermal shock resistance, making it a critical material for hypersonic vehicle leading edges, rocket nozzles, and advanced thermal protection systems. As global investment in hypersonic flight, reusable space vehicles, and next-generation defense platforms accelerates, the demand for reliable materials capable of withstanding extreme thermal and aerodynamic environments continues to grow,

directly supporting the long-term expansion of the ZrB₂ market.

LP Information, Inc. (LPI) ' newest research report, the “Zirconium Diboride (ZrB₂) Industry Forecast” looks at past sales and reviews total world Zirconium Diboride (ZrB₂) sales in 2025, providing a comprehensive analysis by region and market sector of projected Zirconium Diboride (ZrB₂) sales for 2026 through 2032. With Zirconium Diboride (ZrB₂) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Zirconium Diboride (ZrB₂) industry.

This Insight Report provides a comprehensive analysis of the global Zirconium Diboride (ZrB₂) 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 Zirconium Diboride (ZrB₂) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Zirconium Diboride (ZrB₂) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Zirconium Diboride (ZrB₂) 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 Zirconium Diboride (ZrB₂).

This report presents a comprehensive overview, market shares, and growth opportunities of Zirconium Diboride (ZrB₂) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Mirco Grade

Sub-micro and Nano Grade

Segmentation by Purity:

99%

Others

Segmentation by Process:

Boron Carbide Reduction

Self-propagating High-temperature Synthesis (SHS)

Others

Segmentation by Application:

Metallurgy and Refractory

Aerospace and Defense

Nuclear Industry

Conductive Materials

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered

from primary experts and analysing the company's coverage, product portfolio, its market penetration.

H?gan?s

Treibacher Industrie AG

Japan New Metals

Shanghai Chaowei Nano Technology

Huawei Aerospace

Dandong Chemical Engineering Institute

Anhui Ke Run

Hunan Roman

Jinghuang Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Zirconium Diboride (ZrB₂) market?

What factors are driving Zirconium Diboride (ZrB₂) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Zirconium Diboride (ZrB₂) market opportunities vary by end market size?

How does Zirconium Diboride (ZrB₂) break out by Type, by Application?

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