+357 96 030922
info@marketpublishers.com

Global Titanium Diboride Powders Market Growth 2026-2032

https://marketpublishers.com/r/G9763BEABF2EN.html
Date: July 2026
Pages: 118
Price: US$ 3,660.00 (Single User License)
ID: G9763BEABF2EN

Abstracts

The global Titanium Diboride Powders market size is predicted to grow from US$ 53.82 million in 2025 to US$ 72.45 million in 2032; it is expected to grow at a CAGR of 4.4% from 2026 to 2032.

Titanium Diboride Powders are a grayish-black powder with the chemical composition TiB?. It possesses extremely high hardness, excellent thermal stability, and extremely high electrical conductivity, while remaining inert to non-ferrous metal melts. As a powder form, it is easy to process and formulate, and can be used in industrial and functional applications such as high-performance ceramics, composite material reinforcement, metallurgical crucibles, electrode materials, and high thermal conductivity heat dissipation components. Titanium diboride powder is typically prepared through powder synthesis, carbothermal reduction, or mechanical alloying, with particle sizes ranging from nanometers to micrometers. It can be further processed into ceramic blanks or composite material components to meet requirements for wear resistance, high temperature, and high thermal conductivity. In 2025, the global production of Titanium Diboride Powders is estimated at 1,028.5 tons, with a unit price of approximately US$53.5 per kilogram and a gross profit margin of approximately 18.71%.

From a global supply perspective, the international market is dominated by a few large, established manufacturers holding technological and production capacity advantages. These include core companies such as H?gan?s (Sweden), Momentive Technologies (USA), 3M (USA), and Treibacher Industrie (Austria). These companies possess advanced powder synthesis processes and downstream application technologies, while offering diverse particle sizes and purity specifications. The Chinese domestic market, on the other hand, is characterized by a fragmented distribution of small and medium-

+357 96 030922
info@marketpublishers.com

sized enterprises (SMEs). Although their individual production capacity is smaller than that of international giants, they possess rapid expansion potential through technological iteration and supply chain localization. The top five brands account for over 49% of the global market. Companies like H?gan?s, Momentive, and 3M are technologically advanced, hold leading market positions, and are world-renowned suppliers. The Asia-Pacific market accounts for approximately 46% of the global market, while Europe and North America account for approximately 27% and 23%, respectively.

From a demand perspective, the downstream markets for TiB? materials are mainly concentrated in wear-resistant ceramics, composite material reinforcement, metal smelting crucibles, electrolytic aluminum cathodes, and high-temperature mechanical components. In recent years, the rapid development of new energy vehicles, aerospace, and high-end machinery industries has led to a sustained increase in demand for high-performance wear-resistant and high-temperature corrosion-resistant materials, providing significant growth momentum for the TiB? industry. Furthermore, advancements in composite materials and nanopowder technology have driven the expansion of TiB? applications in lightweight structures, functional ceramics, and high thermal conductivity heat dissipation components, creating new incremental markets.

From the perspective of product and technology roadmap evolution, TiB? materials are developing from traditional micron-sized powders towards nanoscale, composite, and multifunctional directions, with high purity, uniform particle size, and surface modification capabilities becoming core competitive advantages. Some manufacturers are improving thermal conductivity, hardness, and oxidation resistance by doping with nitrides or metal elements, achieving customized solutions for specific applications. From a policy environment and industry dynamics perspective, China and some European countries provide policy support and research investment for the development of high-end ceramic materials, while simultaneously promoting the localization of the industrial chain and the implementation of high-end applications, providing opportunities for regional enterprises to expand production and upgrade technology. The global competitive landscape is expected to maintain a steady development driven by the coexistence of international giants and local SMEs, driven by technological iteration.

Based on overall trend analysis, the TiB? industry is expected to maintain steady growth in the short term, primarily driven by demand from downstream wear-resistant ceramics and composite materials. Simultaneously, the commercialization of nano- and functionalized powders will gradually increase product added value. While alternative materials such as boron nitride and silicon carbide are competitive in some applications,

+357 96 030922
info@marketpublishers.com

TiB?'s advantages in thermal conductivity, wear resistance, and chemical stability remain significantly differentiating it. The industry's medium- to long-term prospects are robust, and its technological barriers are substantial.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Titanium Diboride Powders 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 Titanium Diboride Powders.

This report presents a comprehensive overview, market shares, and growth opportunities of Titanium Diboride Powders market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Carbothermal reduction method

Self-propagating Reaction (SHS)

Other

+357 96 030922
info@marketpublishers.com

Segmentation by Purity:

Purity (>99%)

Purity (98%?99%)

Others

Segmentation by Particle Size:

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

2.4 Titanium Diboride Powders Segment by Particle Size

2.4.1

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Titanium Diboride Powders Market Growth 2026-2032
Product link: https://marketpublishers.com/r/G9763BEABF2EN.html
Price: US$ 3,660.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/G9763BEABF2EN.html