

Global Titanium Diboride Powders Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Titanium Diboride Powders market size is expected to reach \$ 75.09 million by 2032, rising at a market growth of 4.1% CAGR during the forecast period (2026-2032).

Titanium Diboride Powders are a grayish-black powder with the chemical composition TiB_2 . 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 Högans (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-

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, Momenive, 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,

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.

This report studies the global Titanium Diboride Powders production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Titanium Diboride Powders 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 Titanium Diboride Powders that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Titanium Diboride Powders total production and demand, 2021-2032, (MT)

Global Titanium Diboride Powders total production value, 2021-2032, (USD Million)

Global Titanium Diboride Powders production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MT), (based on production site)

Global Titanium Diboride Powders consumption by region & country, CAGR, 2021-2032 & (MT)

U.S. VS China: Titanium Diboride Powders domestic production, consumption, key domestic manufacturers and share

Global Titanium Diboride Powders production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (MT)

Global Titanium Diboride Powders production by Type, production, value, CAGR, 2021-2032, (USD Million) & (MT)

Global Titanium Diboride Powders production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MT)

This report profiles key players in the global Titanium Diboride Powders 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 Momentive Technologies, 3M, Japan New Metals, H?gan?s AB, Kennametal, Treibacher Industrie AG, Materion, Dandong Rijin, Orient Special Ceramics, ZIBO Sinyo Nitride Materials Co., Ltd., 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 Titanium Diboride Powders market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MT) and average price (USD/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 Titanium Diboride Powders Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Titanium Diboride Powders Market, Segmentation by Type:

Carbothermal reduction method

Self-propagating Reaction (SHS)

Other

Global Titanium Diboride Powders Market, Segmentation by Purity:

Purity (>99%)

Purity (98%–99%)

Others

Global Titanium Diboride Powders Market, Segmentation by Particle Size:

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