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

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Abstracts

The global High Purity Titanium Diboride Powders market size is expected to reach $ 56.37 million by 2032, rising at a market growth of 4.8% CAGR during the forecast period (2026-2032).

High-purity Titanium Diboride Powders are a grayish-black powder with the chemical composition TiB?. Its chemical purity is typically ?99%, with extremely low impurity content. It possesses extremely high hardness, excellent thermal stability, and outstanding electrical conductivity, and is inert to non-ferrous metal melts. High-purity TiB? powder has a uniform particle size and can be prepared through powder synthesis, carbothermal reduction, self-propagating high-temperature reaction (SHS), mechanical alloying, or sol-gel precursor methods. It can be further processed into ceramic blanks or composite reinforcing materials. This material is widely used in high-performance industrial and scientific research fields such as conductive ceramics, composite material reinforcement, high-temperature refractory ceramic components, thermal management materials, vacuum evaporation components, and precision wear-resistant tools and coatings. In 2025, the global production of High Purity Titanium Diboride Powders was approximately 737.64 tons, with a unit price of approximately US$53.5/kg and a gross profit margin of approximately 18.71%.

The high-purity TiB? powder market has long been dominated by products with a purity of ?99%, primarily supplying high-performance ceramics, composite material reinforcement, wear-resistant parts, metallurgical crucibles, and electronic heat dissipation components. The global supply structure is concentrated in a few manufacturers with high-temperature powder synthesis capabilities and strict purity control, such as European and American companies like H?gan?s, Momentive, 3M, and Treibacher, as well as Chinese ceramic material suppliers with TiB? powder R&D and

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production capabilities. Downstream applications have extremely high requirements for powder purity and particle size; therefore, powders with a purity lower than 99% cannot be used in these high-end applications and are limited to some cost-sensitive industrial fillers or low-performance refractories.

Market demand primarily stems from the following areas:

Electronic and Conductive Ceramics: The development of high-thermal-conductivity, high-reliability electronic devices and sensors is driving increased demand for high-purity TiB? powder.

Composite Material Reinforcement: Increased demand for lightweight, high-strength materials in the aerospace, automotive, and high-end machinery industries is boosting the composite material powder market.

High-Temperature Refractory and Thermal Management Components: The continued expansion of industrial furnaces, evaporation boats, and vacuum process equipment is driving the procurement of high-temperature resistant, high-purity materials.

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

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

Highlights and key features of the study
Global High Purity Titanium Diboride Powders total production and demand, 2021-2032, (Tons)
Global High Purity Titanium Diboride Powders total production value, 2021-2032, (USD Million)
Global High Purity Titanium Diboride Powders production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)
Global High Purity Titanium Diboride Powders consumption by region & country, CAGR, 2021-2032 & (Tons)
U.S. VS China: High Purity Titanium Diboride Powders domestic production,

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consumption, key domestic manufacturers and share
Global High Purity Titanium Diboride Powders production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)
Global High Purity Titanium Diboride Powders production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)
Global High Purity Titanium Diboride Powders production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global High Purity 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 High Purity Titanium Diboride Powders 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 High Purity Titanium Diboride Powders Market, By Region:

United States

China

Europe

Japan

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South Korea

ASEAN

India

Rest of World

Global High Purity Titanium Diboride Powders Market, Segmentation by Type:

Purity (>99.5%)

Purity (99%-99.5%)

Global High Purity Titanium Diboride Powders Market, Segmentation by Technology:

Carbothermal reduction method

Self-propagating Reaction (SHS)

Other

Global High Purity Titanium Diboride Powders Market, Segmentation by Particle Size:

1–2.5 ?m

2.5–5 ?m

5–10 ?m

Other Particle Size

Global High Purity Titanium Diboride Powders Market, Segmentation by Application:

Electrically Conductive Ceramics

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Composite Reinforcement

High-Temperature Ceramic Components

Thermal Management Materials

Evaporation Boats & Vacuum Components

Precision Wear-Resistant Tools & Coatings

Companies Profiled:

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.

Eno Material

DCEI

Shandong Jonye Advanced Materials Co., Ltd.

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PENSC

Longji Tetao

Key Questions Answered:
1. How big is the global High Purity Titanium Diboride Powders market?
2. What is the demand of the global High Purity Titanium Diboride Powders market?
3. What is the year over year growth of the global High Purity Titanium Diboride Powders market?
4. What is the production and production value of the global High Purity Titanium Diboride Powders market?
5. Who are the key producers in the global High Purity Titanium Diboride Powders market?
6. What are the growth factors driving the market demand?

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