

# Global Titanium Diboride Nanopowder Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global Titanium Diboride Nanopowder market size was valued at US\$ 11.3 million in 2024 and is forecast to a readjusted size of USD 14.9 million by 2031 with a CAGR of 4.1% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Titanium diboride (TiB<sub>2</sub>) is an extremely hard ceramic which has excellent heat conductivity, oxidation stability and resistance to mechanical erosion. Its melting point is approximately 3230° and has a density of 4.52 g/cm<sup>3</sup>. Titanium Boride is the most stable of several titanium-boron compounds. The material does not occur in nature but may be synthesized by carbothermal reduction of TiO<sub>2</sub> and B<sub>2</sub>O<sub>3</sub>. TiB<sub>2</sub> is resistant to oxidation in air at temperatures up to 1100 °C, and to hydrochloric and hydrofluoric acids, but reacts with alkalis, nitric acid and sulfuric acid. TiB<sub>2</sub> is also a reasonable electrical conductor, so it can be used as a cathode material in aluminum smelting and can be shaped by electrical discharge machining. Titanium boride micron powders are commonly used in ceramic sintered parts, structural applications including cutting tool composites, ceramic armor nozzles, wear parts, seals, molten metal crucibles and metallizing boats.

This report is a detailed and comprehensive analysis for global Titanium Diboride Nanopowder market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as

well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Titanium Diboride Nanopowder market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Titanium Diboride Nanopowder market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Titanium Diboride Nanopowder market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Titanium Diboride Nanopowder market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2020-2025

### **The Primary Objectives in This Report Are:**

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Titanium Diboride Nanopowder
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Titanium Diboride Nanopowder market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Hoganäs, Materion, Momentive Technologies, 3M, Kyocera Corporation, PENSC, Jinzhou Haixin Metal Materials, Japan New Metals, Eno Material, Treibacher, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

### **Market Segmentation**

Titanium Diboride Nanopowder market is split by Type and by Application. For the

period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### **Market segment by Type**

Particle Size: 20nm

Particle Size: 50nm

Particle Size: 100nm

Particle Size: 200nm

Others

### **Market segment by Application**

Conductive Ceramic Materials

Ceramic Cutting Tools and Moulds

Cathode Coating Material of Aluminum Reduction Cell

PTC Heating Ceramic Materials

Others

### **Major players covered**

Hoganas

Materion

Momentive Technologies

3M

Kyocera Corporation

PENSC

Jinzhou Haixin Metal Materials

Japan New Metals

Eno Material

Treibacher

Shangdong Jonye Advanced Materials

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Titanium Diboride Nanopowder product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Titanium Diboride Nanopowder, with price, sales quantity, revenue, and global market share of Titanium Diboride Nanopowder from 2020 to 2025.

Chapter 3, the Titanium Diboride Nanopowder competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Titanium Diboride Nanopowder breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market

share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Titanium Diboride Nanopowder market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Titanium Diboride Nanopowder.

Chapter 14 and 15, to describe Titanium Diboride Nanopowder sales channel, distributors, customers, research findings and conclusion.

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