

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_2 . Its chemical purity is typically $\geq 99\%$, 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_2 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_2 powder market has long been dominated by products with a purity of $\geq 99\%$, 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_2 powder R&D and

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 TiB₂ 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,

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

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 μ m

2.5–5 μ m

5–10 μ m

Other Particle Size

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

Electrically Conductive Ceramics

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.

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?

Contents

1 SUPPLY SUMMARY

- 1.1 High Purity Titanium Diboride Powders Introduction
- 1.2 World High Purity Titanium Diboride Powders Supply & Forecast
 - 1.2.1 World High Purity Titanium Diboride Powders Production Value (2021 & 2025 & 2032)
 - 1.2.2 World High Purity Titanium Diboride Powders Production (2021-2032)
 - 1.2.3 World High Purity Titanium Diboride Powders Pricing Trends (2021-2032)
- 1.3 World High Purity Titanium Diboride Powders Production by Region (Based on Production Site)
 - 1.3.1 World High Purity Titanium Diboride Powders Production Value by Region (2021-2032)
 - 1.3.2 World High Purity Titanium Diboride Powders Production by Region (2021-2032)
 - 1.3.3 World High Purity Titanium Diboride Powders Average Price by Region (2021-2032)
 - 1.3.4 North America High Purity Titanium Diboride Powders Production (2021-2032)
 - 1.3.5 Europe High Purity Titanium Diboride Powders Production (2021-2032)
 - 1.3.6 China High Purity Titanium Diboride Powders Production (2021-2032)
 - 1.3.7 Japan High Purity Titanium Diboride Powders Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 High Purity Titanium Diboride Powders Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 High Purity Titanium Diboride Powders Major Market Trends

2 DEMAND SUMMARY

- 2.1 World High Purity Titanium Diboride Powders Demand (2021-2032)
- 2.2 World High Purity Titanium Diboride Powders Consumption by Region
 - 2.2.1 World High Purity Titanium Diboride Powders Consumption by Region (2021-2026)
 - 2.2.2 World High Purity Titanium Diboride Powders Consumption Forecast by Region (2027-2032)
- 2.3 United States High Purity Titanium Diboride Powders Consumption (2021-2032)
- 2.4 China High Purity Titanium Diboride Powders Consumption (2021-2032)
- 2.5 Europe High Purity Titanium Diboride Powders Consumption (2021-2032)
- 2.6 Japan High Purity Titanium Diboride Powders Consumption (2021-2032)
- 2.7 South Korea High Purity Titanium Diboride Powders Consumption (2021-2032)

2.8 ASEAN High Purity Titanium Diboride Powders Consumption (2021-2032)

2.9 India High Purity Titanium Diboride Powders Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World High Purity Titanium Diboride Powders Production Value by Manufacturer (2021-2026)

3.2 World High Purity Titanium Diboride Powders Production by Manufacturer (2021-2026)

3.3 World High Purity Titanium Diboride Powders Average Price by Manufacturer (2021-2026)

3.4 High Purity Titanium Diboride Powders Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global High Purity Titanium Diboride Powders Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for High Purity Titanium Diboride Powders in 2025

3.5.3 Global Concentration Ratios (CR8) for High Purity Titanium Diboride Powders in 2025

3.6 High Purity Titanium Diboride Powders Market: Overall Company Footprint Analysis

3.6.1 High Purity Titanium Diboride Powders Market: Region Footprint

3.6.2 High Purity Titanium Diboride Powders Market: Company Product Type Footprint

3.6.3 High Purity Titanium Diboride Powders Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: High Purity Titanium Diboride Powders Production Value Comparison

4.1.1 United States VS China: High Purity Titanium Diboride Powders Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: High Purity Titanium Diboride Powders Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: High Purity Titanium Diboride Powders Production Comparison

4.2.1 United States VS China: High Purity Titanium Diboride Powders Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: High Purity Titanium Diboride Powders Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: High Purity Titanium Diboride Powders Consumption Comparison

4.3.1 United States VS China: High Purity Titanium Diboride Powders Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: High Purity Titanium Diboride Powders Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based High Purity Titanium Diboride Powders Manufacturers and Market Share, 2021-2026

4.4.1 United States Based High Purity Titanium Diboride Powders Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers High Purity Titanium Diboride Powders Production Value (2021-2026)

4.4.3 United States Based Manufacturers High Purity Titanium Diboride Powders Production (2021-2026)

4.5 China Based High Purity Titanium Diboride Powders Manufacturers and Market Share

4.5.1 China Based High Purity Titanium Diboride Powders Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers High Purity Titanium Diboride Powders Production Value (2021-2026)

4.5.3 China Based Manufacturers High Purity Titanium Diboride Powders Production (2021-2026)

4.6 Rest of World Based High Purity Titanium Diboride Powders Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based High Purity Titanium Diboride Powders Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers High Purity Titanium Diboride Powders Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers High Purity Titanium Diboride Powders Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World High Purity Titanium Diboride Powders Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Purity (>99.5%)

5.2.2 Purity (99%-99.5%)

5.3 Market Segment by Type

5.3.1 World High Purity Titanium Diboride Powders Production by Type (2021-2032)

5.3.2 World High Purity Titanium Diboride Powders Production Value by Type (2021-2032)

5.3.3 World High Purity Titanium Diboride Powders Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY TECHNOLOGY

6.1 World High Purity Titanium Diboride Powders Market Size Overview by Technology: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Technology

6.2.1 Carbothermal reduction method

6.2.2 Self-propagating Reaction (SHS)

6.2.3 Other

6.3 Market Segment by Technology

6.3.1 World High Purity Titanium Diboride Powders Production by Technology (2021-2032)

6.3.2 World High Purity Titanium Diboride Powders Production Value by Technology (2021-2032)

6.3.3 World High Purity Titanium Diboride Powders Average Price by Technology (2021-2032)

7 MARKET ANALYSIS BY PARTICLE SIZE

7.1 World High Purity Titanium Diboride Powders Market Size Overview by Particle Size: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Particle Size

7.2.1 1–2.5 μ m

7.2.2 2.5–5 μ m

7.2.3 5–10 μ m

7.2.4 Other Particle Size

7.3 Market Segment by Particle Size

7.3.1 World High Purity Titanium Diboride Powders Production by Particle Size

(2021-2032)

7.3.2 World High Purity Titanium Diboride Powders Production Value by Particle Size

(2021-2032)

7.3.3 World High Purity Titanium Diboride Powders Average Price by Particle Size

(2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World High Purity Titanium Diboride Powders Market Size Overview by Application:
2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Electrically Conductive Ceramics

8.2.2 Composite Reinforcement

8.2.3 High-Temperature Ceramic Components

8.2.4 Thermal Management Materials

8.2.5 Evaporation Boats & Vacuum Components

8.2.6 Precision Wear-Resistant Tools & Coatings

8.3 Market Segment by Application

8.3.1 World High Purity Titanium Diboride Powders Production by Application

(2021-2032)

8.3.2 World High Purity Titanium Diboride Powders Production Value by Application

(2021-2032)

8.3.3 World High Purity Titanium Diboride Powders Average Price by Application

(2021-2032)

9 COMPANY PROFILES

9.1 Momentive Technologies

9.1.1 Momentive Technologies Details

9.1.2 Momentive Technologies Major Business

9.1.3 Momentive Technologies High Purity Titanium Diboride Powders Product and Services

9.1.4 Momentive Technologies High Purity Titanium Diboride Powders Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Momentive Technologies Recent Developments/Updates

9.1.6 Momentive Technologies Competitive Strengths & Weaknesses

9.2 3M

9.2.1 3M Details

9.2.2 3M Major Business

- 9.2.3 3M High Purity Titanium Diboride Powders Product and Services
- 9.2.4 3M High Purity Titanium Diboride Powders Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 3M Recent Developments/Updates
- 9.2.6 3M Competitive Strengths & Weaknesses
- 9.3 Japan New Metals
 - 9.3.1 Japan New Metals Details
 - 9.3.2 Japan New Metals Major Business
 - 9.3.3 Japan New Metals High Purity Titanium Diboride Powders Product and Services
 - 9.3.4 Japan New Metals High Purity Titanium Diboride Powders Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Japan New Metals Recent Developments/Updates
 - 9.3.6 Japan New Metals Competitive Strengths & Weaknesses
- 9.4 H?gan?s AB
 - 9.4.1 H?gan?s AB Details
 - 9.4.2 H?gan?s AB Major Business
 - 9.4.3 H?gan?s AB High Purity Titanium Diboride Powders Product and Services
 - 9.4.4 H?gan?s AB High Purity Titanium Diboride Powders Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 H?gan?s AB Recent Developments/Updates
 - 9.4.6 H?gan?s AB Competitive Strengths & Weaknesses
- 9.5 Kennametal
 - 9.5.1 Kennametal Details
 - 9.5.2 Kennametal Major Business
 - 9.5.3 Kennametal High Purity Titanium Diboride Powders Product and Services
 - 9.5.4 Kennametal High Purity Titanium Diboride Powders Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Kennametal Recent Developments/Updates
 - 9.5.6 Kennametal Competitive Strengths & Weaknesses
- 9.6 Treibacher Industrie AG
 - 9.6.1 Treibacher Industrie AG Details
 - 9.6.2 Treibacher Industrie AG Major Business
 - 9.6.3 Treibacher Industrie AG High Purity Titanium Diboride Powders Product and Services
 - 9.6.4 Treibacher Industrie AG High Purity Titanium Diboride Powders Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Treibacher Industrie AG Recent Developments/Updates
 - 9.6.6 Treibacher Industrie AG Competitive Strengths & Weaknesses
- 9.7 Materion

- 9.7.1 Materion Details
- 9.7.2 Materion Major Business
- 9.7.3 Materion High Purity Titanium Diboride Powders Product and Services
- 9.7.4 Materion High Purity Titanium Diboride Powders Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.7.5 Materion Recent Developments/Updates
- 9.7.6 Materion Competitive Strengths & Weaknesses
- 9.8 Dandong Rijin
 - 9.8.1 Dandong Rijin Details
 - 9.8.2 Dandong Rijin Major Business
 - 9.8.3 Dandong Rijin High Purity Titanium Diboride Powders Product and Services
 - 9.8.4 Dandong Rijin High Purity Titanium Diboride Powders Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Dandong Rijin Recent Developments/Updates
 - 9.8.6 Dandong Rijin Competitive Strengths & Weaknesses
- 9.9 Orient Special Ceramics
 - 9.9.1 Orient Special Ceramics Details
 - 9.9.2 Orient Special Ceramics Major Business
 - 9.9.3 Orient Special Ceramics High Purity Titanium Diboride Powders Product and Services
 - 9.9.4 Orient Special Ceramics High Purity Titanium Diboride Powders Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Orient Special Ceramics Recent Developments/Updates
 - 9.9.6 Orient Special Ceramics Competitive Strengths & Weaknesses
- 9.10 ZIBO Sinyo Nitride Materials Co., Ltd.
 - 9.10.1 ZIBO Sinyo Nitride Materials Co., Ltd. Details
 - 9.10.2 ZIBO Sinyo Nitride Materials Co., Ltd. Major Business
 - 9.10.3 ZIBO Sinyo Nitride Materials Co., Ltd. High Purity Titanium Diboride Powders Product and Services
 - 9.10.4 ZIBO Sinyo Nitride Materials Co., Ltd. High Purity Titanium Diboride Powders Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 ZIBO Sinyo Nitride Materials Co., Ltd. Recent Developments/Updates
 - 9.10.6 ZIBO Sinyo Nitride Materials Co., Ltd. Competitive Strengths & Weaknesses
- 9.11 Eno Material
 - 9.11.1 Eno Material Details
 - 9.11.2 Eno Material Major Business
 - 9.11.3 Eno Material High Purity Titanium Diboride Powders Product and Services
 - 9.11.4 Eno Material High Purity Titanium Diboride Powders Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.11.5 Eno Material Recent Developments/Updates
- 9.11.6 Eno Material Competitive Strengths & Weaknesses
- 9.12 DCEI
 - 9.12.1 DCEI Details
 - 9.12.2 DCEI Major Business
 - 9.12.3 DCEI High Purity Titanium Diboride Powders Product and Services
 - 9.12.4 DCEI High Purity Titanium Diboride Powders Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 DCEI Recent Developments/Updates
 - 9.12.6 DCEI Competitive Strengths & Weaknesses
- 9.13 Shandong Jonye Advanced Materials Co., Ltd.
 - 9.13.1 Shandong Jonye Advanced Materials Co., Ltd. Details
 - 9.13.2 Shandong Jonye Advanced Materials Co., Ltd. Major Business
 - 9.13.3 Shandong Jonye Advanced Materials Co., Ltd. High Purity Titanium Diboride Powders Product and Services
 - 9.13.4 Shandong Jonye Advanced Materials Co., Ltd. High Purity Titanium Diboride Powders Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Shandong Jonye Advanced Materials Co., Ltd. Recent Developments/Updates
 - 9.13.6 Shandong Jonye Advanced Materials Co., Ltd. Competitive Strengths & Weaknesses
- 9.14 PENSC
 - 9.14.1 PENSC Details
 - 9.14.2 PENSC Major Business
 - 9.14.3 PENSC High Purity Titanium Diboride Powders Product and Services
 - 9.14.4 PENSC High Purity Titanium Diboride Powders Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 PENSC Recent Developments/Updates
 - 9.14.6 PENSC Competitive Strengths & Weaknesses
- 9.15 Longji Tetao
 - 9.15.1 Longji Tetao Details
 - 9.15.2 Longji Tetao Major Business
 - 9.15.3 Longji Tetao High Purity Titanium Diboride Powders Product and Services
 - 9.15.4 Longji Tetao High Purity Titanium Diboride Powders Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Longji Tetao Recent Developments/Updates
 - 9.15.6 Longji Tetao Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 High Purity Titanium Diboride Powders Industry Chain
- 10.2 High Purity Titanium Diboride Powders Upstream Analysis
 - 10.2.1 High Purity Titanium Diboride Powders Core Raw Materials
 - 10.2.2 Main Manufacturers of High Purity Titanium Diboride Powders Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 High Purity Titanium Diboride Powders Production Mode
- 10.6 High Purity Titanium Diboride Powders Procurement Model
- 10.7 High Purity Titanium Diboride Powders Industry Sales Model and Sales Channels
 - 10.7.1 High Purity Titanium Diboride Powders Sales Model
 - 10.7.2 High Purity Titanium Diboride Powders Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World High Purity Titanium Diboride Powders Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World High Purity Titanium Diboride Powders Production Value by Region (2021-2026) & (USD Million)

Table 3. World High Purity Titanium Diboride Powders Production Value by Region (2027-2032) & (USD Million)

Table 4. World High Purity Titanium Diboride Powders Production Value Market Share by Region (2021-2026)

Table 5. World High Purity Titanium Diboride Powders Production Value Market Share by Region (2027-2032)

Table 6. World High Purity Titanium Diboride Powders Production by Region (2021-2026) & (Tons)

Table 7. World High Purity Titanium Diboride Powders Production by Region (2027-2032) & (Tons)

Table 8. World High Purity Titanium Diboride Powders Production Market Share by Region (2021-2026)

Table 9. World High Purity Titanium Diboride Powders Production Market Share by Region (2027-2032)

Table 10. World High Purity Titanium Diboride Powders Average Price by Region (2021-2026) & (US\$/kg)

Table 11. World High Purity Titanium Diboride Powders Average Price by Region (2027-2032) & (US\$/kg)

Table 12. High Purity Titanium Diboride Powders Major Market Trends

Table 13. World High Purity Titanium Diboride Powders Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World High Purity Titanium Diboride Powders Consumption by Region (2021-2026) & (Tons)

Table 15. World High Purity Titanium Diboride Powders Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World High Purity Titanium Diboride Powders Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key High Purity Titanium Diboride Powders Producers in 2025

Table 18. World High Purity Titanium Diboride Powders Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key High Purity Titanium Diboride Powders Producers in 2025

Table 20. World High Purity Titanium Diboride Powders Average Price by Manufacturer (2021-2026) & (US\$/kg)

Table 21. Global High Purity Titanium Diboride Powders Company Evaluation Quadrant

Table 22. World High Purity Titanium Diboride Powders Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and High Purity Titanium Diboride Powders Production Site of Key Manufacturer

Table 24. High Purity Titanium Diboride Powders Market: Company Product Type Footprint

Table 25. High Purity Titanium Diboride Powders Market: Company Product Application Footprint

Table 26. High Purity Titanium Diboride Powders Competitive Factors

Table 27. High Purity Titanium Diboride Powders New Entrant and Capacity Expansion Plans

Table 28. High Purity Titanium Diboride Powders Mergers & Acquisitions Activity

Table 29. United States VS China High Purity Titanium Diboride Powders Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China High Purity Titanium Diboride Powders Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China High Purity Titanium Diboride Powders Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based High Purity Titanium Diboride Powders Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers High Purity Titanium Diboride Powders Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers High Purity Titanium Diboride Powders Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers High Purity Titanium Diboride Powders Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers High Purity Titanium Diboride Powders Production Market Share (2021-2026)

Table 37. China Based High Purity Titanium Diboride Powders Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers High Purity Titanium Diboride Powders Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers High Purity Titanium Diboride Powders Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers High Purity Titanium Diboride Powders Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers High Purity Titanium Diboride Powders Production Market Share (2021-2026)

Table 42. Rest of World Based High Purity Titanium Diboride Powders Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers High Purity Titanium Diboride Powders Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers High Purity Titanium Diboride Powders Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers High Purity Titanium Diboride Powders Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers High Purity Titanium Diboride Powders Production Market Share (2021-2026)

Table 47. World High Purity Titanium Diboride Powders Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World High Purity Titanium Diboride Powders Production by Type (2021-2026) & (Tons)

Table 49. World High Purity Titanium Diboride Powders Production by Type (2027-2032) & (Tons)

Table 50. World High Purity Titanium Diboride Powders Production Value by Type (2021-2026) & (USD Million)

Table 51. World High Purity Titanium Diboride Powders Production Value by Type (2027-2032) & (USD Million)

Table 52. World High Purity Titanium Diboride Powders Average Price by Type (2021-2026) & (US\$/kg)

Table 53. World High Purity Titanium Diboride Powders Average Price by Type (2027-2032) & (US\$/kg)

Table 54. World High Purity Titanium Diboride Powders Production Value by Technology, (USD Million), 2021 & 2025 & 2032

Table 55. World High Purity Titanium Diboride Powders Production by Technology (2021-2026) & (Tons)

Table 56. World High Purity Titanium Diboride Powders Production by Technology (2027-2032) & (Tons)

Table 57. World High Purity Titanium Diboride Powders Production Value by Technology (2021-2026) & (USD Million)

Table 58. World High Purity Titanium Diboride Powders Production Value by Technology (2027-2032) & (USD Million)

Table 59. World High Purity Titanium Diboride Powders Average Price by Technology

(2021-2026) & (US\$/kg)

Table 60. World High Purity Titanium Diboride Powders Average Price by Technology (2027-2032) & (US\$/kg)

Table 61. World High Purity Titanium Diboride Powders Production Value by Particle Size, (USD Million), 2021 & 2025 & 2032

Table 62. World High Purity Titanium Diboride Powders Production by Particle Size (2021-2026) & (Tons)

Table 63. World High Purity Titanium Diboride Powders Production by Particle Size (2027-2032) & (Tons)

Table 64. World High Purity Titanium Diboride Powders Production Value by Particle Size (2021-2026) & (USD Million)

Table 65. World High Purity Titanium Diboride Powders Production Value by Particle Size (2027-2032) & (USD Million)

Table 66. World High Purity Titanium Diboride Powders Average Price by Particle Size (2021-2026) & (US\$/kg)

Table 67. World High Purity Titanium Diboride Powders Average Price by Particle Size (2027-2032) & (US\$/kg)

Table 68. World High Purity Titanium Diboride Powders Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World High Purity Titanium Diboride Powders Production by Application (2021-2026) & (Tons)

Table 70. World High Purity Titanium Diboride Powders Production by Application (2027-2032) & (Tons)

Table 71. World High Purity Titanium Diboride Powders Production Value by Application (2021-2026) & (USD Million)

Table 72. World High Purity Titanium Diboride Powders Production Value by Application (2027-2032) & (USD Million)

Table 73. World High Purity Titanium Diboride Powders Average Price by Application (2021-2026) & (US\$/kg)

Table 74. World High Purity Titanium Diboride Powders Average Price by Application (2027-2032) & (US\$/kg)

Table 75. Momentive Technologies Basic Information, Manufacturing Base and Competitors

Table 76. Momentive Technologies Major Business

Table 77. Momentive Technologies High Purity Titanium Diboride Powders Product and Services

Table 78. Momentive Technologies High Purity Titanium Diboride Powders Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 79. Momentive Technologies Recent Developments/Updates
- Table 80. Momentive Technologies Competitive Strengths & Weaknesses
- Table 81. 3M Basic Information, Manufacturing Base and Competitors
- Table 82. 3M Major Business
- Table 83. 3M High Purity Titanium Diboride Powders Product and Services
- Table 84. 3M High Purity Titanium Diboride Powders Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. 3M Recent Developments/Updates
- Table 86. 3M Competitive Strengths & Weaknesses
- Table 87. Japan New Metals Basic Information, Manufacturing Base and Competitors
- Table 88. Japan New Metals Major Business
- Table 89. Japan New Metals High Purity Titanium Diboride Powders Product and Services
- Table 90. Japan New Metals High Purity Titanium Diboride Powders Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Japan New Metals Recent Developments/Updates
- Table 92. Japan New Metals Competitive Strengths & Weaknesses
- Table 93. H?gan?s AB Basic Information, Manufacturing Base and Competitors
- Table 94. H?gan?s AB Major Business
- Table 95. H?gan?s AB High Purity Titanium Diboride Powders Product and Services
- Table 96. H?gan?s AB High Purity Titanium Diboride Powders Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. H?gan?s AB Recent Developments/Updates
- Table 98. H?gan?s AB Competitive Strengths & Weaknesses
- Table 99. Kennametal Basic Information, Manufacturing Base and Competitors
- Table 100. Kennametal Major Business
- Table 101. Kennametal High Purity Titanium Diboride Powders Product and Services
- Table 102. Kennametal High Purity Titanium Diboride Powders Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Kennametal Recent Developments/Updates
- Table 104. Kennametal Competitive Strengths & Weaknesses
- Table 105. Treibacher Industrie AG Basic Information, Manufacturing Base and Competitors
- Table 106. Treibacher Industrie AG Major Business
- Table 107. Treibacher Industrie AG High Purity Titanium Diboride Powders Product and Services
- Table 108. Treibacher Industrie AG High Purity Titanium Diboride Powders Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market

Share (2021-2026)

Table 109. Treibacher Industrie AG Recent Developments/Updates

Table 110. Treibacher Industrie AG Competitive Strengths & Weaknesses

Table 111. Materion Basic Information, Manufacturing Base and Competitors

Table 112. Materion Major Business

Table 113. Materion High Purity Titanium Diboride Powders Product and Services

Table 114. Materion High Purity Titanium Diboride Powders Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Materion Recent Developments/Updates

Table 116. Materion Competitive Strengths & Weaknesses

Table 117. Dandong Rijin Basic Information, Manufacturing Base and Competitors

Table 118. Dandong Rijin Major Business

Table 119. Dandong Rijin High Purity Titanium Diboride Powders Product and Services

Table 120. Dandong Rijin High Purity Titanium Diboride Powders Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Dandong Rijin Recent Developments/Updates

Table 122. Dandong Rijin Competitive Strengths & Weaknesses

Table 123. Orient Special Ceramics Basic Information, Manufacturing Base and Competitors

Table 124. Orient Special Ceramics Major Business

Table 125. Orient Special Ceramics High Purity Titanium Diboride Powders Product and Services

Table 126. Orient Special Ceramics High Purity Titanium Diboride Powders Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Orient Special Ceramics Recent Developments/Updates

Table 128. Orient Special Ceramics Competitive Strengths & Weaknesses

Table 129. ZIBO Sinyo Nitride Materials Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 130. ZIBO Sinyo Nitride Materials Co., Ltd. Major Business

Table 131. ZIBO Sinyo Nitride Materials Co., Ltd. High Purity Titanium Diboride Powders Product and Services

Table 132. ZIBO Sinyo Nitride Materials Co., Ltd. High Purity Titanium Diboride Powders Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. ZIBO Sinyo Nitride Materials Co., Ltd. Recent Developments/Updates

Table 134. ZIBO Sinyo Nitride Materials Co., Ltd. Competitive Strengths & Weaknesses

Table 135. Eno Material Basic Information, Manufacturing Base and Competitors

Table 136. Eno Material Major Business

Table 137. Eno Material High Purity Titanium Diboride Powders Product and Services

Table 138. Eno Material High Purity Titanium Diboride Powders Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Eno Material Recent Developments/Updates

Table 140. Eno Material Competitive Strengths & Weaknesses

Table 141. DCEI Basic Information, Manufacturing Base and Competitors

Table 142. DCEI Major Business

Table 143. DCEI High Purity Titanium Diboride Powders Product and Services

Table 144. DCEI High Purity Titanium Diboride Powders Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. DCEI Recent Developments/Updates

Table 146. DCEI Competitive Strengths & Weaknesses

Table 147. Shandong Jonye Advanced Materials Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 148. Shandong Jonye Advanced Materials Co., Ltd. Major Business

Table 149. Shandong Jonye Advanced Materials Co., Ltd. High Purity Titanium Diboride Powders Product and Services

Table 150. Shandong Jonye Advanced Materials Co., Ltd. High Purity Titanium Diboride Powders Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Shandong Jonye Advanced Materials Co., Ltd. Recent Developments/Updates

Table 152. Shandong Jonye Advanced Materials Co., Ltd. Competitive Strengths & Weaknesses

Table 153. PENSOC Basic Information, Manufacturing Base and Competitors

Table 154. PENSOC Major Business

Table 155. PENSOC High Purity Titanium Diboride Powders Product and Services

Table 156. PENSOC High Purity Titanium Diboride Powders Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. PENSOC Recent Developments/Updates

Table 158. PENSOC Competitive Strengths & Weaknesses

Table 159. Longji Tetao Basic Information, Manufacturing Base and Competitors

Table 160. Longji Tetao Major Business

Table 161. Longji Tetao High Purity Titanium Diboride Powders Product and Services

Table 162. Longji Tetao High Purity Titanium Diboride Powders Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Longji Tetao Recent Developments/Updates

Table 164. Longji Tetao Competitive Strengths & Weaknesses

Table 165. Global Key Players of High Purity Titanium Diboride Powders Upstream
(Raw Materials)

Table 166. Global High Purity Titanium Diboride Powders Typical Customers

Table 167. High Purity Titanium Diboride Powders Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. High Purity Titanium Diboride Powders Picture
- Figure 2. World High Purity Titanium Diboride Powders Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World High Purity Titanium Diboride Powders Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World High Purity Titanium Diboride Powders Production (2021-2032) & (Tons)
- Figure 5. World High Purity Titanium Diboride Powders Average Price (2021-2032) & (US\$/kg)
- Figure 6. World High Purity Titanium Diboride Powders Production Value Market Share by Region (2021-2032)
- Figure 7. World High Purity Titanium Diboride Powders Production Market Share by Region (2021-2032)
- Figure 8. North America High Purity Titanium Diboride Powders Production (2021-2032) & (Tons)
- Figure 9. Europe High Purity Titanium Diboride Powders Production (2021-2032) & (Tons)
- Figure 10. China High Purity Titanium Diboride Powders Production (2021-2032) & (Tons)
- Figure 11. Japan High Purity Titanium Diboride Powders Production (2021-2032) & (Tons)
- Figure 12. High Purity Titanium Diboride Powders Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World High Purity Titanium Diboride Powders Consumption (2021-2032) & (Tons)
- Figure 15. World High Purity Titanium Diboride Powders Consumption Market Share by Region (2021-2032)
- Figure 16. United States High Purity Titanium Diboride Powders Consumption (2021-2032) & (Tons)
- Figure 17. China High Purity Titanium Diboride Powders Consumption (2021-2032) & (Tons)
- Figure 18. Europe High Purity Titanium Diboride Powders Consumption (2021-2032) & (Tons)
- Figure 19. Japan High Purity Titanium Diboride Powders Consumption (2021-2032) & (Tons)

Figure 20. South Korea High Purity Titanium Diboride Powders Consumption (2021-2032) & (Tons)

Figure 21. ASEAN High Purity Titanium Diboride Powders Consumption (2021-2032) & (Tons)

Figure 22. India High Purity Titanium Diboride Powders Consumption (2021-2032) & (Tons)

Figure 23. Producer Shipments of High Purity Titanium Diboride Powders by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for High Purity Titanium Diboride Powders Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for High Purity Titanium Diboride Powders Markets in 2025

Figure 26. United States VS China: High Purity Titanium Diboride Powders Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: High Purity Titanium Diboride Powders Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: High Purity Titanium Diboride Powders Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers High Purity Titanium Diboride Powders Production Market Share 2025

Figure 30. China Based Manufacturers High Purity Titanium Diboride Powders Production Market Share 2025

Figure 31. Rest of World Based Manufacturers High Purity Titanium Diboride Powders Production Market Share 2025

Figure 32. World High Purity Titanium Diboride Powders Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World High Purity Titanium Diboride Powders Production Value Market Share by Type in 2025

Figure 34. Purity (>99.5%)

Figure 35. Purity (99%-99.5%)

Figure 36. World High Purity Titanium Diboride Powders Production Market Share by Type (2021-2032)

Figure 37. World High Purity Titanium Diboride Powders Production Value Market Share by Type (2021-2032)

Figure 38. World High Purity Titanium Diboride Powders Average Price by Type (2021-2032) & (US\$/kg)

Figure 39. World High Purity Titanium Diboride Powders Production Value by Technology, (USD Million), 2021 & 2025 & 2032

Figure 40. World High Purity Titanium Diboride Powders Production Value Market

Share by Technology in 2025

Figure 41. Carbothermal reduction method

Figure 42. Self-propagating Reaction (SHS)

Figure 43. Other

Figure 44. World High Purity Titanium Diboride Powders Production Market Share by Technology (2021-2032)

Figure 45. World High Purity Titanium Diboride Powders Production Value Market Share by Technology (2021-2032)

Figure 46. World High Purity Titanium Diboride Powders Average Price by Technology (2021-2032) & (US\$/kg)

Figure 47. World High Purity Titanium Diboride Powders Production Value by Particle Size, (USD Million), 2021 & 2025 & 2032

Figure 48. World High Purity Titanium Diboride Powders Production Value Market Share by Particle Size in 2025

Figure 49. 1–2.5 μ m

Figure 50. 2.5–5 μ m

Figure 51. 5–10 μ m

Figure 52. Other Particle Size

Figure 53. World High Purity Titanium Diboride Powders Production Market Share by Particle Size (2021-2032)

Figure 54. World High Purity Titanium Diboride Powders Production Value Market Share by Particle Size (2021-2032)

Figure 55. World High Purity Titanium Diboride Powders Average Price by Particle Size (2021-2032) & (US\$/kg)

Figure 56. World High Purity Titanium Diboride Powders Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World High Purity Titanium Diboride Powders Production Value Market Share by Application in 2025

Figure 58. Electrically Conductive Ceramics

Figure 59. Composite Reinforcement

Figure 60. High-Temperature Ceramic Components

Figure 61. Thermal Management Materials

Figure 62. Evaporation Boats & Vacuum Components

Figure 63. Precision Wear-Resistant Tools & Coatings

Figure 64. World High Purity Titanium Diboride Powders Production Market Share by Application (2021-2032)

Figure 65. World High Purity Titanium Diboride Powders Production Value Market Share by Application (2021-2032)

Figure 66. World High Purity Titanium Diboride Powders Average Price by Application

(2021-2032) & (US\$/kg)

Figure 67. High Purity Titanium Diboride Powders Industry Chain

Figure 68. High Purity Titanium Diboride Powders Procurement Model

Figure 69. High Purity Titanium Diboride Powders Sales Model

Figure 70. High Purity Titanium Diboride Powders Sales Channels, Direct Sales, and Distribution

Figure 71. Methodology

Figure 72. Research Process and Data Source

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