

Global Titanium Dihydride Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Titanium Dihydride market size is expected to reach \$ 341 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

In 2025, global Titanium Dihydride production reached approximately 11.35 k tons, with an average global market price of around USD 18,500 per ton.

The gross profit margin of major companies in the industry is between 24.48%-42.76%.

In 2025, the global production capacity of Titanium Dihydride was approximately 14.94 k tons.

Titanium Dihydride is a metal hydride powder mainly used as a hydrogen source, foaming agent, powder metallurgy additive and specialty chemical intermediate. It releases hydrogen when heated and can be used in metal foams, sintered titanium products, pyrotechnic materials, welding materials, hydrogen-related research and advanced material processing. The product is typically supplied as controlled particle-size powder with specified hydrogen content and impurity limits. The market includes industrial and high-purity titanium hydride powders, but excludes titanium metal sponge, titanium dioxide pigment and finished titanium alloy components.

The industry chain includes titanium sponge, titanium powder, hydrogen gas, milling media, inert gas, purification equipment, particle classification systems and sealed packaging materials. Midstream production covers hydrogenation, crushing, milling, sieving, deoxygenation control, particle-size classification, hydrogen content testing and moisture-proof packaging. Downstream demand comes from powder metallurgy, metal foam production, welding materials, specialty alloys, hydrogen storage research,

energetic materials and advanced manufacturing. Growth is driven by lightweight metal foams, additive manufacturing materials, high-performance metallurgy and hydrogen-related material applications.

Titanium dihydride is mainly used in powder metallurgy, hydrogen storage materials, aerospace components and pyrotechnic products as a hydrogen source and sintering additive. Its core advantages include high hydrogen content, stable chemical properties, uniform particle size and controllable reactivity. Market demand is driven by the development of new energy storage and aerospace material industries. Going forward, it will expand in solid-state hydrogen storage and high-performance alloy fields.

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

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

Highlights and key features of the study

Global Titanium Dihydride total production and demand, 2021-2032, (K MT)

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

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

Global Titanium Dihydride consumption by region & country, CAGR, 2021-2032 & (K MT)

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

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

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

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

This report profiles key players in the global Titanium Dihydride 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 Osaka Titanium Technologies, Albemarle, AG Materials, Micron Metals, American Elements, Goodfellow, Stanford Advanced Materials, Luoyang Tongrun Nano Technology Co., Ltd. / TRUNNANO, Jinzhou Haixin Metal 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 Dihydride market

Detailed Segmentation:

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Titanium Dihydride Market, Segmentation by Type:

Titanium Dihydride Powder

Titanium Dihydride Granules

Titanium Dihydride Pellets

Global Titanium Dihydride Market, Segmentation by Grade:

Industrial Grade Titanium Dihydride

Powder Metallurgy Grade Titanium Dihydride

High Purity Titanium Dihydride

Global Titanium Dihydride Market, Segmentation by Particle Size:

Fine Powder??10 ?m?

Medium Powder?10.1?45 ?m?

Coarse Powder??45 ?m?

Global Titanium Dihydride Market, Segmentation by Application:

Powder Metallurgy

Titanium Alloy Processing

Hydrogen Source Materials

Other

Companies Profiled:

Osaka Titanium Technologies

Albemarle

AG Materials

Micron Metals

American Elements

Goodfellow

Stanford Advanced Materials

Luoyang Tongrun Nano Technology Co., Ltd. / TRUNNANO

Jinzhou Haixin Metal Materials Co., Ltd.

Key Questions Answered:

1. How big is the global Titanium Dihydride market?
2. What is the demand of the global Titanium Dihydride market?
3. What is the year over year growth of the global Titanium Dihydride market?
4. What is the production and production value of the global Titanium Dihydride market?
5. Who are the key producers in the global Titanium Dihydride market?
6. What are the growth factors driving the market demand?

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