

Global Tantalum Diboride Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Tantalum Diboride market size was valued at US\$ 16.05 million in 2025 and is forecast to a readjusted size of US\$ 22.88 million by 2032 with a CAGR of 5.2% during review period.

In 2025, global sales volume of Tantalum Diboride was approximately 13 tons, with an average global market price of around USD 1200/kg. The gross margin of major manufacturers in the industry was approximately 30%-45%.

Tantalum Diboride, with the chemical formula TaB_2 and CAS No. 12007-35-1, is a typical refractory metal diboride and an important material in the fields of ultra-high-temperature ceramic and hard functional ceramic. It combines the high-temperature resistance and high hardness of ceramic materials with the excellent electrical and thermal conductivity of metallic materials, and is typically supplied as gray-black or black powder. The product features a high melting point, high hardness, wear resistance, corrosion resistance, good electrical and thermal conductivity, and strong high-temperature stability. It can be used in powder metallurgy, thermal spraying, target and thin-film preparation and other processing routes, making it a high-performance specialty functional material suitable for ultra-high-temperature, severe wear, strong erosion and corrosive environments.

The upstream materials of Tantalum Diboride mainly include tantalum powder, tantalum oxide, boron powder, carbon sources, protective gases and high-temperature synthesis equipment. Its production processes generally involve borothermal reduction, carbothermal reduction, high-temperature solid-state reaction, crushing and classification, and purification treatment. Downstream applications mainly include

aerospace thermal protection material, high-temperature industrial component, wear-resistant protective coating, electronic functional film and composite material reinforcement. It also has continuous application potential in frontier material research, specialty coatings for new energy applications and other emerging scenarios.

This report is a detailed and comprehensive analysis for global Tantalum Diboride 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 Tantalum Diboride market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Tantalum Diboride market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Tantalum Diboride market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Tantalum Diboride market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/kg), 2021-2026

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 Tantalum Diboride

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 Tantalum Diboride 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 Hunan Huawei Jingcheng Material Technology, Jinzhou Haixin Metal Materials, etc.

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

Market Segmentation

Tantalum Diboride market is split by Type and by Application. For the period 2021-2032, 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

Industrial Grade

High-Purity Grade

Market segment by Particle Size

Micron Powder (1?50 ?m)

Submicron Powder (0.1?1 ?m)

Nanopowder (1?100 nm)

Market segment by Application

Aerospace Thermal Protection Material

High-Temperature Industrial Component

Wear-Resistant Protective Coating

Electronic Functional Film

Other

Major players covered

Hunan Huawei Jingcheng Material Technology

Jinzhou Haixin Metal 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 Tantalum Diboride product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Tantalum Diboride, with price, sales quantity, revenue, and global market share of Tantalum Diboride from 2021 to 2026.

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

Chapter 4, the Tantalum Diboride breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Tantalum Diboride market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Tantalum Diboride.

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

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