

# Global Niobium Diboride Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Niobium Diboride market size is expected to reach \$ 102 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

Niobium Diboride is an ultra-high-temperature ceramic compound composed of niobium and boron (chemical formula NbB<sub>2</sub>), known for its high melting point, extreme hardness, excellent electrical conductivity, thermal stability, oxidation resistance, and wear resistance. It is widely used in advanced ceramics, cutting tools, aerospace thermal protection systems, sputtering targets, conductive coatings, refractory materials, and high-temperature structural components. The supply chain of niobium diboride starts with upstream raw materials including niobium ores such as pyrochlore and columbite, mainly mined and processed into niobium oxide or ferroniobium, along with boron sources such as boric acid or boron carbide. Midstream manufacturing involves powder synthesis through carbothermal reduction, borothermal reduction, hot pressing, spark plasma sintering, or self-propagating high-temperature synthesis (SHS) to produce niobium diboride powders, ceramics, and targets with controlled purity and particle size. Downstream industries include aerospace, defense, electronics, semiconductor sputtering, metallurgy, industrial tooling, energy systems, and advanced research applications where high-temperature durability and conductive ceramic performance are required. In 2025, global Niobium Diboride output was about 2,600 tons with 3,500 tons of capacity, average prices of USD 20,000–35,000 per ton, and gross margins around 37%.

This report studies the global Niobium Diboride production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Niobium

Diboride 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 Niobium Diboride that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Niobium Diboride total production and demand, 2021-2032, (Tons)

Global Niobium Diboride total production value, 2021-2032, (USD Million)

Global Niobium Diboride production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Niobium Diboride consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Niobium Diboride domestic production, consumption, key domestic manufacturers and share

Global Niobium Diboride production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Niobium Diboride production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Niobium Diboride production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Niobium Diboride 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 CBMM (Brazil), American Elements (USA), Materion (USA), Global Advanced Metals (USA), ATI Specialty Materials (USA), H.C. Starck (Germany), Plansee Group (Austria), Treibacher Industrie (Austria), Japan New Metals (Japan), JX Advanced Metals (Japan), 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 Niobium Diboride market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) 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 Niobium Diboride Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Niobium Diboride Market, Segmentation by Type:

Industrial Grade (95–98%)

High-Purity Grade (98–99.5%)

Ultra-High-Purity Grade (>99.5%)

#### Global Niobium Diboride Market, Segmentation by Particle Size:

Nano Powder (10 ?m)

#### Global Niobium Diboride Market, Segmentation by Application:

Aerospace & Defense

Semiconductor & Electronic

Industrial Manufacturing

Metallurgy & Refractory

Others

Companies Profiled:

CBMM (Brazil)

American Elements (USA)

Materion (USA)

Global Advanced Metals (USA)

ATI Specialty Materials (USA)

H.C. Starck (Germany)

Plansee Group (Austria)

Treibacher Industrie (Austria)

Japan New Metals (Japan)

JX Advanced Metals (Japan)

Tosoh Corporation (Japan)

Furuya Metal (Japan)

Ningxia Orient Tantalum (China)

China Minmetals Rare Earth (China)

Key Questions Answered:

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

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