

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

<https://marketpublishers.com/r/G542121087AAEN.html>

Date: June 2026

Pages: 122

Price: US\$ 3,480.00 (Single User License)

ID: G542121087AAEN

Abstracts

According to our (Global Info Research) latest study, the global Niobium Diboride market size was valued at US\$ 64.82 million in 2025 and is forecast to a readjusted size of US\$ 102 million by 2032 with a CAGR of 6.7% during review period.

Niobium Diboride is an ultra-high-temperature ceramic compound composed of niobium and boron (chemical formula NbB₂), 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 is a detailed and comprehensive analysis for global Niobium 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 Niobium Diboride market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

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

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

Global Niobium Diboride market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 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 Niobium 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 Niobium 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 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.

Market Segmentation

Niobium 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 (95–98%)

High-Purity Grade (98–99.5%)

Ultra-High-Purity Grade (>99.5%)

Market segment by Particle Size

Nano Powder (10 ?m)

Market segment by Application

Aerospace & Defense

Semiconductor & Electronic

Industrial Manufacturing

Metallurgy & Refractory

Others

Major players covered

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)

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 Niobium Diboride product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Niobium 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 Niobium 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 Niobium Diboride.

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

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