

Global Niobium Boride 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 Niobium Boride market size was valued at US\$ 91.58 million in 2025 and is forecast to a readjusted size of US\$ 158 million by 2032 with a CAGR of 8.1% during review period.

Niobium boride is a class of refractory ceramic and intermetallic compounds composed of niobium and boron, commonly including niobium diboride (NbB₂) and other boride phases, valued for their extremely high melting point, hardness, electrical conductivity, wear resistance, and chemical stability under high-temperature conditions. These materials are widely used in ultra-high-temperature ceramics, aerospace thermal protection systems, cutting tools, conductive ceramic components, armor materials, metallurgical additives, and advanced electronics. The supply chain of niobium boride begins with upstream mining and refining of niobium-bearing ores such as pyrochlore and columbite, primarily processed into ferroniobium, niobium oxide, or high-purity niobium metal, while boron sources are derived from borax, boric acid, boron carbide, or elemental boron production. In the midstream stage, niobium boride powders and bulk materials are synthesized through carbothermal reduction, borothermal reduction, self-propagating high-temperature synthesis (SHS), hot pressing, spark plasma sintering, or powder metallurgy techniques. Downstream industries then integrate niobium boride into aerospace components, high-temperature coatings, wear-resistant industrial parts, semiconductor-related materials, defense systems, and advanced manufacturing applications requiring exceptional thermal and mechanical performance. In 2025, global Niobium Boride output was about 4,000 tons with 5,000 tons of capacity, average prices of USD 18,000–30,000 per ton, and gross margins around 38%.

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

Global Niobium Boride 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 Boride 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 Boride 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 Boride
- 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 Boride 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 Boride 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

Hexagonal Niobium Boride

Orthorhombic Niobium Boride

Tetragonal Niobium Boride

Market segment by Particle Size

Coarse Powder (>100 μ m)

Fine Powder (1–100 μ m)

Ultrafine Powder (0.1-1 μ m)

Nanopowder (

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