

Global Niobium Carbonitride Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Niobium Carbonitride market size is expected to reach \$ 507 million by 2032, rising at a market growth of 7.2% CAGR during the forecast period (2026-2032).

Niobium Carbonitride is a refractory ceramic compound composed of niobium, carbon, and nitrogen, typically existing as a solid solution between niobium carbide (NbC) and niobium nitride (NbN), known for its extremely high hardness, melting point (>3,000 °C), wear resistance, and thermal stability. It is widely used as a strengthening and grain-refining additive in high-performance steels (especially HSLA steels), cutting tools, cermets, and coatings for aerospace and automotive applications. The supply chain begins upstream with niobium ore extraction (primarily pyrochlore deposits in Brazil and Canada), followed by beneficiation and conversion into niobium oxides (Nb₂O₅) and ferro-niobium alloys. In the midstream, these intermediates are processed through carbothermal and/or nitridation reactions under high-temperature controlled atmospheres to produce niobium carbonitride powders or sintered materials. Downstream, Nb(C,N) is integrated into steelmaking (microalloying), powder metallurgy, hard coatings (e.g., PVD/CVD), and advanced ceramics manufacturing, supplying industries such as construction, energy, transportation, and precision machining. In 2025, global Niobium Carbonitride output was about 12,000 tons with 16,000 tons of capacity, average prices of USD 18,000-50,000 per ton, and gross margins around 38%.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Niobium Carbonitride 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 H.C. Starck (Germany), Japan New Metals (Japan), Treibacher Industrie (Austria), Plansee Group (Austria), ATI Specialty Materials (USA), Global Advanced Metals (USA), ESPI Metals (USA), American Elements (USA), Noah Chemicals (USA), Xiamen Tungsten (China), 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 Carbonitride 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 Carbonitride Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Niobium Carbonitride Market, Segmentation by Type:

Industrial Grade (99.9%)

Global Niobium Carbonitride Market, Segmentation by Chemical Composition:

Carbon-rich Type

Nitrogen-rich Type

Balanced Type

Global Niobium Carbonitride Market, Segmentation by Application:

Metallurgy

Cutting Tool

Automotive

Aerospace & Defense

Others

Companies Profiled:

H.C. Starck (Germany)

Japan New Metals (Japan)

Treibacher Industrie (Austria)

Plansee Group (Austria)

ATI Specialty Materials (USA)

Global Advanced Metals (USA)

ESPI Metals (USA)

American Elements (USA)

Noah Chemicals (USA)

Xiamen Tungsten (China)

Guangdong Xianglu Tungsten (China)

Jiujiang Zhongao New Materials (China)

Key Questions Answered:

1. How big is the global Niobium Carbonitride market?

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

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