

Global Niobium Carbonitride 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 Carbonitride market size was valued at US\$ 311 million in 2025 and is forecast to a readjusted size of US\$ 507 million by 2032 with a CAGR of 7.2% during review period.

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

Global Niobium Carbonitride 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 Carbonitride 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 Carbonitride 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 Carbonitride

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 Carbonitride 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 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.

Market Segmentation

Niobium Carbonitride 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 (99.9%)

Market segment by Chemical Composition

Carbon-rich Type

Nitrogen-rich Type

Balanced Type

Market segment by Application

Metallurgy

Cutting Tool

Automotive

Aerospace & Defense

Others

Major players covered

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)

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 Carbonitride product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Niobium Carbonitride 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 Carbonitride 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 Carbonitride.

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

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