

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

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Abstracts

The global Niobium Phosphide market size is expected to reach \$ 172 million by 2032, rising at a market growth of 8.2% CAGR during the forecast period (2026-2032).

Niobium Phosphide is a high-purity transition metal phosphide compound composed of niobium and phosphorus, widely recognized for its unique electronic properties, including extremely high carrier mobility, topological semimetal behavior, and strong magnetoresistance. It is primarily used in advanced scientific research, quantum materials studies, semiconductor electronics, spintronics, optoelectronics, and emerging quantum computing applications. The supply chain begins with upstream raw materials such as niobium concentrates (derived mainly from pyrochlore ores and processed into niobium metal or niobium pentoxide) and high-purity phosphorus or phosphine-based precursors. In the midstream stage, specialized materials manufacturers synthesize niobium phosphide through high-temperature solid-state reactions, chemical vapor transport (CVT), flux growth methods, or crystal growth processes to produce powders, targets, and single crystals with controlled purity and crystallographic properties. Downstream users include universities, national laboratories, semiconductor research institutes, quantum technology developers, advanced electronics companies, and materials science organizations conducting research into Weyl semimetals, next-generation electronic devices, and fundamental condensed matter physics. In 2025, global Niobium Phosphide output was about 3,000 tons with 4,000 tons of capacity, average prices of USD 25,000-70,000 per ton, and gross margins around 38%.

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

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

Phosphide 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 Phosphide that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Niobium Phosphide total production and demand, 2021-2032, (Kilotons)

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

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

Global Niobium Phosphide consumption by region & country, CAGR, 2021-2032 & (Kilotons)

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

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

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

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

This report profiles key players in the global Niobium Phosphide 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), Niobec (Canada), Tosoh (Japan), JX Advanced Metals (Japan), H.C. Starck (Germany), Materion (USA), CMOC Group (China), Western Metal Materials (China), Ningxia Orient Tantalum (China), American Elements (USA), 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 Phosphide market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) 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 Phosphide Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Niobium Phosphide Market, Segmentation by Type:

Research Grade (99.9%)

Global Niobium Phosphide Market, Segmentation by Crystal Structure:

Polycrystalline

Single-Crystal

Global Niobium Phosphide Market, Segmentation by Application:

Laboratory

Semiconductor

Optoelectronic

Others

Companies Profiled:

CBMM (Brazil)

Niobec (Canada)

Tosoh (Japan)

JX Advanced Metals (Japan)

H.C. Starck (Germany)

Materion (USA)

CMOC Group (China)

Western Metal Materials (China)

Ningxia Orient Tantalum (China)

American Elements (USA)

Key Questions Answered:

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

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