

Global Niobium Phosphide 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 Phosphide market size was valued at US\$ 99 million in 2025 and is forecast to a readjusted size of US\$ 172 million by 2032 with a CAGR of 8.2% during review period.

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

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

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

Global Niobium Phosphide market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), 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 Phosphide

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 Phosphide 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), 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.

Market Segmentation

Niobium Phosphide 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

Research Grade (99.9%)

Market segment by Crystal Structure

Polycrystalline

Single-Crystal

Market segment by Application

Laboratory

Semiconductor

Optoelectronic

Others

Major players covered

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)

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

Chapter 2, to profile the top manufacturers of Niobium Phosphide, with price,

sales quantity, revenue, and global market share of Niobium Phosphide from 2021 to 2026.

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

Chapter 4, the Niobium Phosphide 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 Phosphide 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 Phosphide.

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

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