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Global Nickel Niobium Alloy Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Nickel Niobium Alloy market size is expected to reach $ 446 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

In 2025, global production of Nickel Niobium Alloy reached approximately 1.45 million kilograms (approximately 1,450 metric tons), with an average price of around USD 196 per kilogram. Nickel Niobium Alloys are binary or multi-element alloy systems based on a nickel matrix with niobium additions, functioning as high-performance master alloys and specialty functional materials, combining the ductility, workability of nickel with the high melting point, corrosion resistance, and strengthening effects of niobium. By niobium content, they can be classified into low-niobium series (Nb 5%-15%), medium-niobium series (Nb 18%-23%, such as NiNb master alloys with typical composition of C 0.01%-0.03%, Nb 18%-23%, balance Ni), and high-niobium series (Nb 30%-65%, such as NiNb target alloys), with the latter further divided into NiNb 60% and NiNb 65% grades. Product forms include ingots, bars, wires, sheets, powders, and sputtering targets. Manufacturing processes primarily involve vacuum induction melting, vacuum arc remelting, and powder metallurgy, with high-purity target-grade products requiring vacuum suspension zone melting plus directional solidification. Major applications include nickel-based superalloys (aeroengine turbine blades, combustors), specialty nickel steels (petrochemical corrosion-resistant equipment, nuclear structural components), sputtering targets (Gen-IV nuclear system corrosion-resistant coatings, hypersonic vehicle thermal protection coatings), new energy (novel nickel-based cathode materials), and high-performance powders for additive manufacturing.

The global Nickel Niobium Alloy market is experiencing steady growth, with the aerospace and defense sector representing the largest source of demand, driven by sustained requirements for high-strength, high-temperature, fatigue-resistant materials

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in jet engines, turbine blades, and structural components, while advances in electric vehicle battery technology are driving increased demand for niobium additions in nickel-based cathode materials. North America holds a dominant market position supported by its mature aerospace and defense industrial base and government policies recognizing niobium as a strategic material. Technological development is focused on composition uniformity control of high-purity nickel-niobium master alloys, NbN precipitate size and morphology regulation, powder sphericity improvement for additive manufacturing, and ultra-low interstitial element control. Future iterations of high-thrust-to-weight-ratio aeroengines, demand release for Gen-IV nuclear reactor corrosion-resistant coatings, and the development of strategic emerging industries such as superconductivity and hydrogen energy will continue to drive market expansion.

Report Scope

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

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

Highlights and key features of the study

Global Nickel Niobium Alloy total production and demand, 2021-2032, (kg)

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

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

Global Nickel Niobium Alloy consumption by region & country, CAGR, 2021-2032 & (kg)

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

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Global Nickel Niobium Alloy production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)

Global Nickel Niobium Alloy production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)

Global Nickel Niobium Alloy production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global Nickel Niobium Alloy 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 ATI, Amaero Inc, JX Advanced Metals (TANIOBIS), 6K Inc, GE Aerospace (AP&C), CNPC Powder, OTIC, Stardust Technology, Foshan Chengfeng Material Technology, SaiShu Technology, 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 Nickel Niobium Alloy market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (kg) and average price (US$/kg) 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 Nickel Niobium Alloy Market, By Region:

United States

China

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Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Nickel Niobium Alloy Market, Segmentation by Type:

NiNb60

NiNb63

NiNb65

Others

Global Nickel Niobium Alloy Market, Segmentation by Purity Grade:

<99.5%

99.5%-99.95%

>99.95%

Global Nickel Niobium Alloy Market, Segmentation by Preparation Process:

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Plasma Rotating Electrode Process (PREP)

Gas Atomization (GA)

Plasma Spheroidization (PS)

Hydrogenation-Dehydrogenation (HDH)

Global Nickel Niobium Alloy Market, Segmentation by Application:

Nuclear Industry

Steel Industry

Automation Device

Others

Companies Profiled:

ATI

Amaero Inc

JX Advanced Metals (TANIOBIS)

6K Inc

GE Aerospace (AP&C)

CNPC Powder

OTIC

Stardust Technology

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Foshan Chengfeng Material Technology

SaiShu Technology

Key Questions Answered

1. How big is the global Nickel Niobium Alloy market?
2. What is the demand of the global Nickel Niobium Alloy market?
3. What is the year over year growth of the global Nickel Niobium Alloy market?
4. What is the total value of the global Nickel Niobium Alloy market?
5. Who are the Major Players in the global Nickel Niobium Alloy market?
6. What are the growth factors driving the market demand?

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