

Global Niobium-titanium Alloy Superconducting Wire Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Niobium-titanium Alloy Superconducting Wire market size is expected to reach \$ 462 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

In 2025, global niobium-titanium alloy superconducting wire production reached approximately 8692 k meters, the average price is 35 usd/meter. The niobium-titanium alloy superconducting wire is a wire made from a niobium-titanium alloy superconductor material, which has good processing plasticity, high strength and good superconductivity.

Market Concentration and Key Players:

Internationally, the market concentration of niobium titanium alloy superconducting wires is relatively high, mainly concentrated in developed countries such as Europe, America and Japan. For example, Oxford Instruments and Bruker and other large manufacturers; from the domestic point of view, niobium titanium alloy superconducting wire has a lot of room for development.

Manufacturing Processes and Market Trends:

The core of the manufacturing process of niobium titanium alloy superconducting wire lies in the precise multi-core composite processing technology, which begins with the high uniformity vacuum melting of niobium and titanium to form niobium titanium alloy ingot, and then it is made into fine core wire by plastic processing such as extrusion and multiple drawing, and embedded in stabilized matrix such as oxygen-free copper or high purity aluminum to finally form multi-core composite wire containing thousands of superconducting filaments. In this process, Accurate control of heat treatment regime to optimize ? phase structure and introduce high density flux pinning centers is the key to improve superconducting properties such as critical current density.

The current market trend shows that the global niobium titanium superconducting alloy market continues to grow, and its core driving force comes from the continuous growth

of demand for high-intensity magnetic resonance imaging equipment in the medical imaging field, as well as the huge demand for high-performance superconducting magnets in large scientific projects such as the International Thermonuclear Experimental Reactor. China accounts for about one third of the global market. Enterprises represented by Western Superconductor have international competitiveness in terms of technology level and market share. In the future, the industry will develop in the direction of further improving material performance to adapt to higher magnetic field applications and optimizing cost and reliability.

This report studies the global Niobium-titanium Alloy Superconducting Wire production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Niobium-titanium Alloy Superconducting Wire total production and demand, 2021-2032, (K Meter)

Global Niobium-titanium Alloy Superconducting Wire total production value, 2021-2032, (USD Million)

Global Niobium-titanium Alloy Superconducting Wire production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Meter), (based on production site)

Global Niobium-titanium Alloy Superconducting Wire consumption by region & country, CAGR, 2021-2032 & (K Meter)

U.S. VS China: Niobium-titanium Alloy Superconducting Wire domestic production, consumption, key domestic manufacturers and share

Global Niobium-titanium Alloy Superconducting Wire production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Meter)

Global Niobium-titanium Alloy Superconducting Wire production by Core Number, production, value, CAGR, 2021-2032, (USD Million) & (K Meter)

Global Niobium-titanium Alloy Superconducting Wire production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Meter)

This report profiles key players in the global Niobium-titanium Alloy Superconducting Wire 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 Oxford Instruments, Bruker, Luvata, Japan Superconductor Technology, American Superconductor, Sumitomo

Electric Industries, Supercon Inc, Western Superconducting Technologies, Furukawa Electric, KISWIRE, 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-titanium Alloy Superconducting Wire market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Meter) and average price (US\$/Meter) by manufacturer, by Core Number, 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-titanium Alloy Superconducting Wire Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Niobium-titanium Alloy Superconducting Wire Market, Segmentation by Core Number:

NbTi Core Number 18

NbTi Core Number 24

NbTi Core Number 36

NbTi Core Number 54

Others

Global Niobium-titanium Alloy Superconducting Wire Market, Segmentation by Structure:

Multicore Nb-Ti Superconducting Wire

Few-core Nb-Ti Superconducting Wire

Global Niobium-titanium Alloy Superconducting Wire Market, Segmentation by Technology:

Stack & Draw

Thermomechanical Optimization

Global Niobium-titanium Alloy Superconducting Wire Market, Segmentation by Application:

MRI System

Superconducting Magnet for Laboratory

Maglev Train

Others

Companies Profiled:

Oxford Instruments

Bruker

Luvata

Japan Superconductor Technology

American Superconductor

Sumitomo Electric Industries

Supercon Inc

Western Superconducting Technologies

Furukawa Electric

KISWIRE

Key Questions Answered:

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

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