

Global Niobium-Titanium Superconducting Materials Market Growth 2023-2029

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Abstracts

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Superconducting materials are divided into low-temperature superconducting materials and high-temperature superconducting materials. Superconducting materials with critical temperature below 25K~30K are low-temperature superconducting materials, and superconducting materials with critical temperature higher than 25K~30K are high-temperature superconducting materials. At present, application devices based on low-temperature superconducting materials generally work at liquid helium temperature (4.2K and below), and application devices based on high-temperature superconducting materials generally work between liquid hydrogen temperature (about 20K) to liquid nitrogen temperature (about 77K).

NbTi is an important low temperature superconducting material. The NbTi alloy can be processed into an alloy by the general refractory metal processing method, and then processed into a multi-core composite superconducting wire with copper (or aluminum) as the matrix by the multi-core composite processing method. Finally, the final alloy is made of ? single phase by metallurgical methods. Transform into a two-phase (?+?) alloy with a strong pinning center to meet application requirements. The main difference between NbTi and NbsSn is that NbTi is a binary alloy with good processing plasticity, high strength, low manufacturing cost and low critical magnetic field. It is mainly used for magnetic fields below 10T; The performance is poor and the manufacturing cost is high, but the critical magnetic field is high, and it is mainly used for magnetic fields above 10T.

LPI (LP Information)' newest research report, the "Niobium-Titanium Superconducting Materials Industry Forecast" looks at past sales and reviews total world Niobium-

Titanium Superconducting Materials sales in 2022, providing a comprehensive analysis by region and market sector of projected Niobium-Titanium Superconducting Materials sales for 2023 through 2029. With Niobium-Titanium Superconducting Materials sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Niobium-Titanium Superconducting Materials industry.

This Insight Report provides a comprehensive analysis of the global Niobium-Titanium Superconducting Materials landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Niobium-Titanium Superconducting Materials portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Niobium-Titanium Superconducting Materials market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Niobium-Titanium Superconducting Materials and breaks down the forecast by type, by application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Niobium-Titanium Superconducting Materials.

The global Niobium-Titanium Superconducting Materials market size is projected to grow from US\$ 162.4 million in 2022 to US\$ 207 million in 2029; it is expected to grow at a CAGR of 207 from 2023 to 2029.

Global key players of NbTi Superconducting Alloy include Bruker, Allegheny Technologies, Luvata, JASTEC, Western Superconducting, etc. The top three players hold a share over 61%. North America is the largest market, has a share about 35%, followed by Europe and Asia-Pacific, with share 29% and 27%, separately. In terms of product type, NbTi Superconducting Wire is the largest segment, occupied for a share of 70%, and in terms of application, MRI has a share about 29 percent.

This report presents a comprehensive overview, market shares, and growth opportunities of Niobium-Titanium Superconducting Materials market by product type, application, key manufacturers and key regions and countries.

Market Segmentation:

Segmentation by type

Wire

Sheet

Tubing

Bars

Others

Segmentation by application

Aerospace

Chemical

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Western Superconducting Technologies Co., Ltd

Bruker

Wah Chang

Oxford

Luvata

JASTEC

Key Questions Addressed in this Report

What is the 10-year outlook for the global Niobium-Titanium Superconducting Materials market?

What factors are driving Niobium-Titanium Superconducting Materials market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Niobium-Titanium Superconducting Materials market opportunities vary by end market size?

How does Niobium-Titanium Superconducting Materials break out type, application?

What are the influences of COVID-19 and Russia-Ukraine war?

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