

# Global Superconductor Wire Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Superconductor Wire market size is expected to reach \$ 2204 million by 2032, rising at a market growth of 11.7% CAGR during the forecast period (2026-2032).

Superconductor wire is a type of electrical conductor that, when cooled below a certain critical temperature, exhibits zero electrical resistance. This means that electric current can flow through the wire without any loss of energy as heat, which is a significant advantage over traditional conductors like copper or aluminum.

Superconductors also exhibit a phenomenon called the Meissner effect, which causes them to repel magnetic fields, allowing them to levitate above a magnet or cause a magnet to levitate above them. This property is useful in applications like magnetic levitation (maglev) trains and powerful electromagnets.

Superconductor wires are used in a variety of applications, including in the construction of powerful magnets for MRI machines, particle accelerators, and experimental fusion reactors. They are also being explored for their potential in creating highly efficient power grids and advanced electronic devices.

Regionally, Europe will continue to dominate the superconductor wires market from 2025 to 2030, followed by North America and Asia-Pacific. Europe accounted for 43.93% of the global market in 2024, while North America and Asia-Pacific accounted for 33.09% and 21.73%, respectively. Increasing investments in fusion research and continuous efforts to decarbonize the transportation sector, especially in the European region, are driving the market in this region.

The cost of making superconductors is very high due to their material composition, and

the price at this stage makes them commercially unfeasible, making commercial applications less likely and limiting them to niche markets. Currently, the cost of high temperature superconductors is very high compared to low temperature superconductors. Reducing this cost is a major challenge for manufacturers, which limits the number of buyers in the market and reduces the ability to realize economies of scale. The discovery of new superconductors that can be mass-produced at low cost could reduce the cost of many superconducting devices.

This report studies the global Superconductor Wire production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

Global Superconductor Wire total production and demand, 2021-2032, (K Meter)

Global Superconductor Wire total production value, 2021-2032, (USD Million)

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

Global Superconductor Wire consumption by region & country, CAGR, 2021-2032 & (K Meter)

U.S. VS China: Superconductor Wire domestic production, consumption, key domestic manufacturers and share

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

Global Superconductor Wire production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Meter)

Global Superconductor Wire production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Meter)

This report profiles key players in the global Superconductor 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 Sumitomo Electric Industries, Fujikura, Furukawa Electric, Bruker, American Superconductor, JASTEC, Kiswire, Luvata, SuNam, MetOx, 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 Superconductor Wire market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Meter) and average price (USD/Meter) 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 Superconductor Wire Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Superconductor Wire Market, Segmentation by Type:

Low Temperature Superconductor

High Temperature Superconductor

## Global Superconductor Wire Market, Segmentation by Application:

Medical

Electric Power

Science and Engineering

Others

## Companies Profiled:

Sumitomo Electric Industries

Fujikura

Furukawa Electric

Bruker

American Superconductor

JASTECH

Kiswire

Luvata

SuNam

MetOx

Sam Dong

THEVA

Supercon

Western Superconducting

InnoST

Shanghai Superconductor Technology

**Key Questions Answered:**

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

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