

# Global Superconductor Wire Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global Superconductor Wire market size was valued at US\$ 938 million in 2024 and is forecast to a readjusted size of USD 2014 million by 2031 with a CAGR of 11.7% during review period.

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 is a detailed and comprehensive analysis for global Superconductor Wire 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 Superconductor Wire market size and forecasts, in consumption value (\$ Million), sales quantity (K Meter), and average selling prices (USD/Meter), 2020-2031

Global Superconductor Wire market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Meter), and average selling prices (USD/Meter), 2020-2031

Global Superconductor Wire market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Meter), and average selling prices (USD/Meter), 2020-2031

Global Superconductor Wire market shares of main players, shipments in revenue (\$ Million), sales quantity (K Meter), and ASP (USD/Meter), 2020-2025

#### 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 Superconductor Wire

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 Superconductor Wire 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 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.

## Market Segmentation

Superconductor Wire market is split by Type and by Application. For the period 2020-2031, 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

Low Temperature Superconductor

High Temperature Superconductor

### Market segment by Application

Medical

Electric Power

Science and Engineering

Others

## Major players covered

Sumitomo Electric Industries

Fujikura

Furukawa Electric

Bruker

American Superconductor

JASTEC

Kiswire

Luvata

SuNam

MetOx

Sam Dong

THEVA

Supercon

Western Superconducting

InnoST

Shanghai Superconductor Technology

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 Superconductor Wire product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Superconductor Wire, with price, sales quantity, revenue, and global market share of Superconductor Wire from 2020 to 2025.

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

Chapter 4, the Superconductor Wire breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Superconductor Wire market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Superconductor Wire.

Chapter 14 and 15, to describe Superconductor Wire sales channel, distributors,

customers, research findings and conclusion.

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