

Global High Temperature Superconducting Wires Market Growth 2025-2031

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Abstracts

The global High Temperature Superconducting Wires market size is predicted to grow from US\$ million in 2025 to US\$ million in 2031; it is expected to grow at a CAGR of %from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Superconducting wire is wire made of superconductors. When cooled below its transition temperature, it has zero electrical resistance. Most commonly, conventional superconductors such as niobium-titanium are used, but high-temperature superconductors such as YBCO are entering the market. Superconducting wire's advantages over copper or aluminum include higher maximum current densities and zero power dissipation. Its disadvantages include the cost of refrigeration of the wires to superconducting temperatures (often requiring cryogenics such as liquid helium or liquid nitrogen), the danger of the wire quenching (a sudden loss of superconductivity), the inferior mechanical properties of some superconductors, and the cost of wire materials and construction. Its main application is in superconducting magnets, which are used in scientific and medical equipment where high magnetic fields are necessary.

Compact and high-capacity underground HTS cables are indispensable for increasing the capacity and reliability of power grids. HTS power cables conduct nearly 5-10 times more power than conventional copper wires of the comparable cross section. There has been substantial development toward the commercialization of HTS power cables. The world's first high temperature superconducting power transmission cable system in a commercial power grid was set up in the US in 2008. This HTS power transmission

system is capable of transmitting 574 megawatts of electricity, which is enough to power more than 200,000 homes. Similar projects are also expected to come up across many countries including China, Japan, South Korea, and Germany, which will boost this market's growth prospects in the coming years.

HTS power cables provide exclusive benefits for wireless applications due to ultra-low dissipation and distortion, along with, quantum accuracy. Superconductor radio-frequency (RF) filters with higher interference termination have been deployed at cellular base stations, aiding wider range and fewer call drops. Moreover, fourth generation all-digital receivers (ADR) for the US defense offer vast improvements in performance, efficiency, and cost for satellite communications (SATCOM), electronic warfare (EW) and signal intelligence (SIGINT) systems. This will result in the increased adoption of HTS filters and ADRs, which will, in turn, fuel the growth of this market over the next four years.

United States market for High Temperature Superconducting Wires is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for High Temperature Superconducting Wires is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for High Temperature Superconducting Wires is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key High Temperature Superconducting Wires players cover AMSC, SuperPower, Bruker, Fujikura, Sumitomo, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the "High Temperature Superconducting Wires Industry Forecast" looks at past sales and reviews total world High Temperature Superconducting Wires sales in 2024, providing a comprehensive analysis by region and market sector of projected High Temperature Superconducting Wires sales for 2025 through 2031. With High Temperature Superconducting Wires sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world High Temperature Superconducting Wires industry.

This Insight Report provides a comprehensive analysis of the global High Temperature Superconducting Wires 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 High Temperature Superconducting Wires portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global High Temperature Superconducting Wires market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High Temperature Superconducting Wires 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 High Temperature Superconducting Wires.

This report presents a comprehensive overview, market shares, and growth opportunities of High Temperature Superconducting Wires market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

First Generation HT Superconductors

Second Generation HT Superconductors

Segmentation by Application:

Healthcare

R&D

Electronics

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 analysing the company's coverage, product portfolio, its market penetration.

AMSC

SuperPower

Bruker

Fujikura

Sumitomo

SuNam

SHSC

Innost

Key Questions Addressed in this Report

What is the 10-year outlook for the global High Temperature Superconducting Wires market?

What factors are driving High Temperature Superconducting Wires market growth, globally and by region?

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

How do High Temperature Superconducting Wires market opportunities vary by end market size?

How does High Temperature Superconducting Wires break out by Type, by Application?

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