

High Temperature Superconducting Wires  
Industry - Global Market By Region, Competitive  
Landscape and Segment Forecasts 2019 - 2026

<http://www.mrsresearchgroup.com/market-analysis/high-temperature-superconducting-wires-industry-global-market-by.html>

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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.

The High Temperature Superconducting Wires market was valued at xx Million US\$ in 2018 and is projected to reach xx Million US\$ by 2025, at a CAGR of xx% during the forecast period. In this study, 2018 has been considered as the base year and 2019 to 2025 as the forecast period to estimate the market size for High Temperature Superconducting Wires.

This study focuses on the production side and consumption side of High

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Temperature Superconducting Wires, presents the global High Temperature Superconducting Wires market size by manufacturers, regions, type and application, history breakdown data from 2014 to 2019, and forecast to 2025.

In terms of production side, this report researches the High Temperature Superconducting Wires capacity, production, value, ex-factory price, growth rate, market share for major manufacturers, regions (or countries) and product type.

In terms of consumption side, this report focuses on the consumption of High Temperature Superconducting Wires by regions and application. The key regions like North America, Europe, Asia-Pacific, Central & South America, Middle East and Africa etc.

This report includes the following manufacturers; we can also add the other companies as you want.

AMSC

SuperPower

Bruker

Fujikura

Sumitomo

SuNam

SHSC

Innost

Market Segment by Product Type

First Generation HT Superconductors

Second Generation HT Superconductors

Market Segment by Application

Healthcare

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R&D

Electronics

Key Regions split in this report:

North America

United States

Canada

Mexico

Asia-Pacific

China

India

Japan

South Korea

Australia

Indonesia

Malaysia

Philippines

Thailand

Vietnam

Europe

Germany

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France

UK

Italy

Russia

Central & South America

Brazil

Rest of Central & South America

Middle East & Africa

The study objectives are:

To analyze and research the global High Temperature Superconducting Wires status and future forecast, involving capacity, production, value, consumption, growth rate (CAGR), market share, historical and forecast.

To present the key High Temperature Superconducting Wires manufacturers, capacity, production, revenue, market share, and recent development.

To split the breakdown data by regions, type, manufacturers and applications.

To analyze the global and key regions market potential and advantage, opportunity and challenge, restraints and risks.

To identify significant trends, drivers, influence factors in global and regions.

To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

In this study, the years considered to estimate the market size of High Temperature Superconducting Wires are as follows:

History Year: 2014-2019

Base Year: 2018

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Estimated Year: 2019

Forecast Year 2019 to 2025

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mrsresearchgroup.com  
sales@mrsresearchgroup.com

## Contact Us

Joel John

3422 SW 15 Street, Suit #8138,  
Deerfield Beach, Florida 33442,  
United States

**Tel:** +1-386-310-3803

**GMT Tel:** +49-322 210 92714

**USA/Canada Toll Free No.** 1-855-465-4651

**Email:** [sales@mrsresearchgroup.com](mailto:sales@mrsresearchgroup.com)

**Web:** <http://www.mrsresearchgroup.com>

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mrsresearchgroup.com  
sales@mrsresearchgroup.com