

Global High Temperature Superconducting Wires Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global High Temperature Superconducting Wires market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

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 Global Info Research report includes an overview of the development of the High Temperature Superconducting Wires industry chain, the market status of Healthcare (First Generation HT Superconductors, Second Generation HT Superconductors), R&D (First Generation HT Superconductors, Second Generation HT Superconductors), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of High Temperature Superconducting Wires.

Regionally, the report analyzes the High Temperature Superconducting Wires markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global High Temperature Superconducting Wires market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the High Temperature Superconducting Wires market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the High Temperature Superconducting Wires industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K M), revenue generated, and market share of different by Type (e.g., First Generation HT Superconductors, Second Generation HT

Superconductors).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the High Temperature Superconducting Wires market.

Regional Analysis: The report involves examining the High Temperature Superconducting Wires market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the High Temperature Superconducting Wires market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to High Temperature Superconducting Wires:

Company Analysis: Report covers individual High Temperature Superconducting Wires manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards High Temperature Superconducting Wires. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Healthcare, R&D).

Technology Analysis: Report covers specific technologies relevant to High Temperature Superconducting Wires. It assesses the current state, advancements, and potential future developments in High Temperature Superconducting Wires areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the High Temperature Superconducting Wires market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

High Temperature Superconducting Wires market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

First Generation HT Superconductors

Second Generation HT Superconductors

Market segment by Application

Healthcare

R&D

Electronics

Major players covered

AMSC

SuperPower

Bruker

Fujikura

Sumitomo

SuNam

SHSC

Innost

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 High Temperature Superconducting Wires product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High Temperature Superconducting Wires, with price, sales, revenue and global market share of High Temperature Superconducting Wires from 2019 to 2024.

Chapter 3, the High Temperature Superconducting Wires competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High Temperature Superconducting Wires breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share

and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and High Temperature Superconducting Wires market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 High Temperature Superconducting Wires.

Chapter 14 and 15, to describe High Temperature Superconducting Wires sales channel, distributors, customers, research findings and conclusion.

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