

Global REBCO HTS Tape Materials Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global REBCO HTS Tape Materials market size is expected to reach \$ 184 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

REBCO high-temperature superconducting tape is a second-generation high-temperature superconducting conductor that uses rare-earth barium copper oxide as its primary superconducting layer. It is also commonly referred to as 2G HTS wire, REBCO coated conductor, or REBCO superconducting tape. The product generally has a multilayer composite structure consisting of a metallic substrate, buffer layers, a thin REBCO superconducting film, a silver protective layer, and copper stabilization layers. REBCO tape provides high critical-current density at liquid-nitrogen and lower operating temperatures and retains strong current-carrying performance under intense magnetic fields. It is therefore widely considered an enabling material for high-field superconducting magnets, fusion systems, superconducting power cables, electric machines, energy-storage systems, accelerators, and advanced scientific equipment. Compared with conventional low-temperature superconductors, REBCO conductors can operate at higher temperatures and under stronger magnetic fields, making them particularly suitable for compact and high-performance superconducting systems. In 2025, global REBCO HTS Tape Materials production reached approximately 4993 km, with an average global marketprice of around 24 USD/m,.The production capacity for REBCO HTS Tape Materials in 2025 was approximately 5500 km. The typical gross profit margin for REBCO HTS Tape Materials between 20% and 40%.

The global REBCO high-temperature superconducting tape market is gradually moving from research and demonstration projects toward industrial-scale deployment. Fusion energy represents one of the most important emerging demand drivers, as REBCO

tapes can enable magnets operating above 20 T and support more compact, high-field magnetic-confinement systems. Demand is also expanding across superconducting power cables, high-power-density motors and generators, particle accelerators, medical magnet systems, magnetic levitation, defense, space, and scientific-research applications. Competitive differentiation is shifting from critical-current performance alone toward long-length uniformity, high-field capability, mechanical durability, low AC losses, operational stability, and reliable volume delivery. However, the industry continues to face challenges associated with high manufacturing costs, the brittle ceramic nature of the superconducting layer, production yield, and consistent performance over long conductor lengths. Future market growth will therefore depend heavily on capacity expansion, improved deposition and coating processes, lower cost per kiloampere-meter, and the development of a more resilient global supply chain.

This report studies the global REBCO HTS Tape Materials production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for REBCO HTS Tape Materials 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 REBCO HTS Tape Materials that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global REBCO HTS Tape Materials total production and demand, 2021-2032, (K Meter)

Global REBCO HTS Tape Materials total production value, 2021-2032, (USD Million)

Global REBCO HTS Tape Materials production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Meter), (based on production site)

Global REBCO HTS Tape Materials consumption by region & country, CAGR, 2021-2032 & (K Meter)

U.S. VS China: REBCO HTS Tape Materials domestic production, consumption, key domestic manufacturers and share

Global REBCO HTS Tape Materials production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Meter)

Global REBCO HTS Tape Materials production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Meter)

Global REBCO HTS Tape Materials production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Meter)

This report profiles key players in the global REBCO HTS Tape Materials 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 Faraday Factory Japan (FFJ), AMSC, SuNAM, Furukawa Electric, Fujikura, THEVA, MetOx, SuperOx, Suprema, HIT Superconductors, 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 REBCO HTS Tape Materials market

Detailed Segmentation:

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global REBCO HTS Tape Materials Market, Segmentation by Type:

PLD

MOCVD

MOD

Others

Global REBCO HTS Tape Materials Market, Segmentation by Tape Width:

2 mm REBCO Tape

4 mm REBCO Tape

6 mm REBCO Tape

12 mm REBCO Tape

Others

Global REBCO HTS Tape Materials Market, Segmentation by Application:

Fusion Energy

Medical Imaging & High-field Magnets

Power Grid

Motors & Generators

Transportation

Others

Companies Profiled:

Faraday Factory Japan (FFJ)

AMSC

SuNAM

Furukawa Electric

Fujikura

THEVA

MetOx

SuperOx

Suprema

HIT Superconductors

S-Innovations

JIANG SU ETERN

Shanghai Superconductor Technology

Eastern Superconducting Technology

Shanghai Creative Superconductor Technologies

Key Questions Answered:

1. How big is the global REBCO HTS Tape Materials market?
2. What is the demand of the global REBCO HTS Tape Materials market?
3. What is the year over year growth of the global REBCO HTS Tape Materials market?
4. What is the production and production value of the global REBCO HTS Tape Materials market?

5. Who are the key producers in the global REBCO HTS Tape Materials market?
6. What are the growth factors driving the market demand?

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