

# Global High Thermal Conductivity Carbon Fiber Market Growth 2026-2032

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## Abstracts

The global High Thermal Conductivity Carbon Fiber market size is predicted to grow from US\$ 496 million in 2025 to US\$ 852 million in 2032; it is expected to grow at a CAGR of 8.2% from 2026 to 2032.

High thermal conductivity carbon fiber refers to carbon fiber with excellent thermal conductivity. It is mainly based on asphalt-based and vapor-phase grown carbon fiber, and its thermal conductivity is 1.5 to 3 and 5 times that of copper, respectively, and it can efficiently release the heat that needs to be discharged. It is used as a heat dissipator for artificial satellites, space stations and high-density wiring substrates, and as a reinforcement for copper-based or aluminum-based composite materials. This report studies carbon fibers with a thermal conductivity Above or equal to 180W/mk.

United States market for High Thermal Conductivity Carbon Fiber is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for High Thermal Conductivity Carbon Fiber is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for High Thermal Conductivity Carbon Fiber is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key High Thermal Conductivity Carbon Fiber players cover Nippon Graphite Fiber Corporation, Toray, Syensqo, Mitsubishi Rayon, Teijin Carbon, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "High Thermal Conductivity Carbon Fiber Industry Forecast" looks at past sales and reviews total world High Thermal Conductivity Carbon Fiber sales in 2025, providing a comprehensive analysis by region and market sector of projected High Thermal Conductivity Carbon Fiber sales for 2026 through 2032. With High Thermal Conductivity Carbon Fiber sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world High Thermal Conductivity Carbon Fiber industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High Thermal Conductivity Carbon Fiber 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 Thermal Conductivity Carbon Fiber.

This report presents a comprehensive overview, market shares, and growth opportunities of High Thermal Conductivity Carbon Fiber market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Pitch-Based Carbon Fiber

Graphene-Based Carbon Fiber

Others

### Segmentation by Application:

Consumer Electronics

Satellite Navigation

Nuclear Energy

Others

### 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.

Nippon Graphite Fiber Corporation

Toray

Syensqo

Mitsubishi Rayon

Teijin Carbon

Hexcel

Formosa Plastics Corp

Cytec Solvay

Toyicarbon

Gaoxitech

Shenzhen Ringo Tech Material Technology

#### Key Questions Addressed in this Report

What is the 10-year outlook for the global High Thermal Conductivity Carbon Fiber market?

What factors are driving High Thermal Conductivity Carbon Fiber market growth, globally and by region?

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

How do High Thermal Conductivity Carbon Fiber market opportunities vary by end market size?

How does High Thermal Conductivity Carbon Fiber break out by Type, by Application?

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