

Global High Temperature Carbon Fiber Sheet Market Growth 2026-2032

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Abstracts

The global High Temperature Carbon Fiber Sheet market size is predicted to grow from US\$ 1882 million in 2025 to US\$ 3346 million in 2032; it is expected to grow at a CAGR of 8.6% from 2026 to 2032.

A high-temperature carbon fiber sheet is a flat, laminate material made from continuous carbon fibers reinforced with high-temperature-resistant resin systems—such as phenolic, polyimide, bismaleimide (BMI), or ceramic-derived matrices—designed to retain mechanical strength, dimensional stability, and structural integrity at sustained temperatures typically above 300–500 °C, and in some aerospace or thermal-protection applications exceeding 1,000 °C in short-duration exposure. The supply chain begins upstream with polyacrylonitrile (PAN) or pitch precursors, which are oxidized and carbonized to produce high-modulus or high-strength carbon fibers; these fibers are then surface-treated and sized before entering the midstream stage, where they are converted into fabrics or unidirectional tapes and impregnated with high-temperature resin systems to form prepregs, followed by hot-pressing, autoclave curing, or resin-transfer processes to create rigid carbon fiber sheets or panels. Downstream, the sheets are precision-machined, coated, or bonded into components used in aerospace thermal structures, rocket motor insulation, industrial furnaces, high-temperature tooling, friction systems, and advanced electronics, with final qualification often driven by aerospace, defense, or extreme-environment industrial standards. In 2025, global high-temperature carbon fiber sheet output was about 68,000 tons, backed by 90,000 tons of annual capacity, with unit prices ranging from USD 22,000 to 45,000 per ton and average gross margins around 36%.

United States market for High Temperature Carbon Fiber Sheet 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 Temperature Carbon Fiber Sheet 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 Temperature Carbon Fiber Sheet 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 Temperature Carbon Fiber Sheet players cover Toray Industries (Japan), Hexcel (USA), SGL Carbon (Germany), Mitsubishi Chemical (Japan), Teijin (Japan), 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 Temperature Carbon Fiber Sheet Industry Forecast" looks at past sales and reviews total world High Temperature Carbon Fiber Sheet sales in 2025, providing a comprehensive analysis by region and market sector of projected High Temperature Carbon Fiber Sheet sales for 2026 through 2032. With High Temperature Carbon Fiber Sheet sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world High Temperature Carbon Fiber Sheet industry.

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

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

This report presents a comprehensive overview, market shares, and growth

opportunities of High Temperature Carbon Fiber Sheet market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Phenolic Matrix Type

Polyimide Matrix Type

Bismaleimide Matrix Type

Ceramic Matrix Type

Others

Segmentation by Temperature Rating:

Medium High Temperature (250–350 °C)

High Temperature (350–600 °C)

Ultra-high Temperature (>600 °C)

Segmentation by Application:

Aerospace & Defense

Industrial Equipment

Automotive

Energy & Power System

Electronic & Semiconductor

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.

Toray Industries (Japan)

Hexcel (USA)

SGL Carbon (Germany)

Mitsubishi Chemical (Japan)

Teijin (Japan)

Gurit (Switzerland)

Solvay (Belgium)

DuPont (USA)

Owens Corning (USA)

SABIC (Saudi Arabia)

Key Questions Addressed in this Report

What is the 10-year outlook for the global High Temperature Carbon Fiber Sheet

market?

What factors are driving High Temperature Carbon Fiber Sheet market growth, globally and by region?

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

How do High Temperature Carbon Fiber Sheet market opportunities vary by end market size?

How does High Temperature Carbon Fiber Sheet break out by Type, by Application?

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