

Global High Temperature Carbon Fiber Sheet Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High Temperature Carbon Fiber Sheet market size is expected to reach \$ 3423 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).

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%.

This report studies the global High Temperature Carbon Fiber Sheet production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High Temperature Carbon Fiber Sheet 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 High Temperature Carbon Fiber Sheet that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High Temperature Carbon Fiber Sheet total production and demand, 2021-2032, (Tons)

Global High Temperature Carbon Fiber Sheet total production value, 2021-2032, (USD Million)

Global High Temperature Carbon Fiber Sheet production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global High Temperature Carbon Fiber Sheet consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: High Temperature Carbon Fiber Sheet domestic production, consumption, key domestic manufacturers and share

Global High Temperature Carbon Fiber Sheet production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global High Temperature Carbon Fiber Sheet production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global High Temperature Carbon Fiber Sheet production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global High Temperature Carbon Fiber Sheet 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 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), 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 High Temperature Carbon Fiber Sheet market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) 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 High Temperature Carbon Fiber Sheet Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Temperature Carbon Fiber Sheet Market, Segmentation by Type:

Phenolic Matrix Type

Polyimide Matrix Type

Bismaleimide Matrix Type

Ceramic Matrix Type

Others

Global High Temperature Carbon Fiber Sheet Market, Segmentation by Temperature Rating:

Medium High Temperature (250?350 ?C)

High Temperature (350?600 ?C)

Ultra-high Temperature (>600 ?C)

Global High Temperature Carbon Fiber Sheet Market, Segmentation by Application:

Aerospace & Defense

Industrial Equipment

Automotive

Energy & Power System

Electronic & Semiconductor

Others

Companies Profiled:

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 Answered:

1. How big is the global High Temperature Carbon Fiber Sheet market?
2. What is the demand of the global High Temperature Carbon Fiber Sheet market?
3. What is the year over year growth of the global High Temperature Carbon Fiber Sheet market?
4. What is the production and production value of the global High Temperature Carbon Fiber Sheet market?
5. Who are the key producers in the global High Temperature Carbon Fiber Sheet market?
6. What are the growth factors driving the market demand?

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