

# Global High Temperature Carbon Fiber Sheet Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global High Temperature Carbon Fiber Sheet market size was valued at US\$ 1980 million in 2025 and is forecast to a readjusted size of US\$ 3423 million by 2032 with a CAGR of 8.1% during review period.

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 is a detailed and comprehensive analysis for global High Temperature Carbon Fiber Sheet market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global High Temperature Carbon Fiber Sheet market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global High Temperature Carbon Fiber Sheet market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global High Temperature Carbon Fiber Sheet market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global High Temperature Carbon Fiber Sheet market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for High Temperature Carbon Fiber Sheet

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global High Temperature Carbon Fiber Sheet market based on the following parameters - company overview, sales quantity, revenue, 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.

## **Market Segmentation**

High Temperature Carbon Fiber Sheet market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Phenolic Matrix Type

Polyimide Matrix Type

Bismaleimide Matrix Type

Ceramic Matrix Type

Others

### Market segment by Temperature Rating

Medium High Temperature (250?350 ?C)

High Temperature (350?600 ?C)

Ultra-high Temperature (>600 ?C)

### Market segment by Application

Aerospace & Defense

Industrial Equipment

Automotive

Energy & Power System

Electronic & Semiconductor

Others

#### Major players covered

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)

#### 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 Carbon Fiber Sheet product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High Temperature Carbon Fiber Sheet, with price, sales quantity, revenue, and global market share of High Temperature Carbon Fiber Sheet from 2021 to 2026.

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

Chapter 4, the High Temperature Carbon Fiber Sheet breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and High Temperature Carbon Fiber Sheet market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Carbon Fiber Sheet.

Chapter 14 and 15, to describe High Temperature Carbon Fiber Sheet sales channel, distributors, customers, research findings and conclusion.

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