

Global Carbon Fiber Composite Materials for Aerospace Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Carbon Fiber Composite Materials for Aerospace market size is expected to reach \$ 23712 million by 2032, rising at a market growth of 8.4% CAGR during the forecast period (2026-2032).

In 2025, global Carbon Fiber Composite Materials for Aerospace production reached approximately 123 kilotons?with an average global market price of around US\$ 110,000 per ton, and a gross profit margin of approximately 20%-40%. Carbon Fiber Composite Materials for Aerospace are high-performance materials formed by combining continuous or discontinuous carbon fibers with thermoset or thermoplastic resin matrices. Major forms include carbon fiber tow, woven fabrics, unidirectional tapes, prepregs, laminates, molding compounds, and sandwich structures. These materials provide high specific strength, high stiffness, fatigue resistance, corrosion resistance, dimensional stability, and substantial weight reduction compared with many metallic alternatives. They are used in aircraft fuselages, wings, control surfaces, empennages, engine nacelles, interior structures, rotorcraft components, satellites, launch vehicles, payload fairings, pressure vessels, and unmanned aerial systems. The industrial chain of Carbon Fiber Composite Materials for Aerospace begins with acrylonitrile, polymer precursors, pitch, specialty resins, curing agents, additives, sizing agents, solvents, release films, and auxiliary materials. Upstream processes include precursor spinning, stabilization, carbonization, graphitization, surface treatment, sizing, weaving, braiding, resin formulation, and prepreg production. Midstream activities include material slitting, automated tape laying, automated fiber placement, hand layup, resin infusion, filament winding, compression molding, autoclave curing, machining, bonding, inspection, and certification. Downstream applications cover commercial aircraft, military aircraft, helicopters, spacecraft, satellites, launch vehicles, missiles, drones, and maintenance

services. Supporting activities include testing, simulation, recycling, logistics, and technical support.

The Carbon Fiber Composite Materials for Aerospace market is expanding as aircraft and spacecraft manufacturers pursue lower structural weight, improved fuel efficiency, longer range, higher payload capacity, and reduced lifecycle emissions. Commercial aircraft production recovery, defense modernization, satellite deployment, launch-vehicle activity, and unmanned aerial system development are increasing demand for aerospace-grade carbon fiber, prepregs, tapes, and thermoplastic composites. Thermoset epoxy systems remain dominant in primary aircraft structures, while high-temperature resins are important for engines, space vehicles, and defense applications. Thermoplastic composites are gaining attention because of rapid processing, weldability, impact resistance, storage convenience, and recycling potential. Automated fiber placement, out-of-autoclave curing, digital process control, and high-rate molding are being developed to reduce labor requirements and manufacturing cycles. However, high material prices, lengthy qualification procedures, production-capacity constraints, energy-intensive carbonization, inspection requirements, and recycling difficulties may restrict growth. Continued aircraft backlog, space investment, and lightweighting requirements are expected to support strong long-term demand.

This report studies the global Carbon Fiber Composite Materials for Aerospace production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Carbon Fiber Composite Materials for Aerospace total production and demand, 2021-2032, (Kilotons)

Global Carbon Fiber Composite Materials for Aerospace total production value, 2021-2032, (USD Million)

Global Carbon Fiber Composite Materials for Aerospace production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Carbon Fiber Composite Materials for Aerospace consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Carbon Fiber Composite Materials for Aerospace domestic production, consumption, key domestic manufacturers and share

Global Carbon Fiber Composite Materials for Aerospace production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Carbon Fiber Composite Materials for Aerospace production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Carbon Fiber Composite Materials for Aerospace production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Carbon Fiber Composite Materials for Aerospace 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 Hexcel, Teijin, Mitsubishi Chemical Group, Syensqo, Toray Industries, SGL Carbon, Nippon Graphite Fiber, Park Aerospace, Axiom Materials, TCR Composites, 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 Carbon Fiber Composite Materials for Aerospace market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) 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 Carbon Fiber Composite Materials for Aerospace Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Fiber Composite Materials for Aerospace Market, Segmentation by Type:

Thermosetting Type

Thermoplastic Type

Global Carbon Fiber Composite Materials for Aerospace Market, Segmentation by Modulus:

Standard Modulus

Intermediate Modulus

High Modulus

Global Carbon Fiber Composite Materials for Aerospace Market, Segmentation by Carbon Fiber Precursor:

PAN-based Carbon Fiber

Pitch-based Carbon Fiber

Others

Global Carbon Fiber Composite Materials for Aerospace Market, Segmentation by Application:

Civil Aircraft

Military Aircraft

Companies Profiled:

Hexcel

Teijin

Mitsubishi Chemical Group

Syensqo

Toray Industries

SGL Carbon

Nippon Graphite Fiber

Park Aerospace

Axiom Materials

TCR Composites

Barrday

Specialty Materials

Gurit

Victrex

Weihai Guangwei Composites

Jiangsu Hengshen

Zhongfu Shenying Carbon Fiber

Key Questions Answered:

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

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