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Global Carbon Fiber and CFRP Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Carbon Fiber and CFRP market size is expected to reach $ 33050 million by 2032, rising at a market growth of 13.1% CAGR during the forecast period (2026-2032).

Carbon fiber is a high-performance material composed of thin, strong crystalline filaments of carbon atoms. It is known for its exceptional strength-to-weight ratio, high stiffness, corrosion resistance, and excellent fatigue properties. These properties make it a preferred choice for applications where lightweight and high strength are critical.

Carbon fiber is produced through the controlled pyrolysis of precursor materials such as polyacrylonitrile (PAN) and pitch. The resulting fiber is woven into fabrics or combined with resins to form carbon fiber reinforced polymer (CFRP), which is widely used in various industries.

Intensified Competition: The market is dominated by major players such as Toray, MCCFC, Hexcel, and Teijin. At the same time, new players are entering the market, increasing competition in the large tow carbon fiber segment.

Improved Manufacturing Processes: Advanced resin transfer molding (RTM), 3D weaving, and AI-assisted material design enhance production efficiency.

Cost Reduction Efforts: Manufacturers are investing in new production techniques like low-cost precursors (lignin-based, bio-based), automated fiber placement (AFP), and optimized resin infusion techniques.

Growing Demand from Aerospace and Automotive Industries: The aerospace sector increasingly adopts carbon fiber to reduce aircraft weight and improve fuel efficiency.

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The automotive industry is accelerating carbon fiber adoption, particularly in EVs and high-performance sports cars.

Renewable Energy Expansion: Wind energy is a significant driver, as larger wind turbine blades (over 100 meters) require high-strength carbon fiber composites for durability and weight reduction.

Rising Demand in Infrastructure and Construction: The use of carbon fiber-reinforced concrete (CFRC) in earthquake-resistant buildings and bridges is increasing due to its high durability and corrosion resistance.

This report studies the global Carbon Fiber and CFRP production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study
Global Carbon Fiber and CFRP total production and demand, 2021-2032, (Tons)
Global Carbon Fiber and CFRP total production value, 2021-2032, (USD Million)
Global Carbon Fiber and CFRP production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)
Global Carbon Fiber and CFRP consumption by region & country, CAGR, 2021-2032 & (Tons)
U.S. VS China: Carbon Fiber and CFRP domestic production, consumption, key domestic manufacturers and share
Global Carbon Fiber and CFRP production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)
Global Carbon Fiber and CFRP production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)
Global Carbon Fiber and CFRP production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Carbon Fiber and CFRP 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, MCCFC, Teijin, Hexcel, Hyosung Advanced Materials, SGL Carbon, Formosa Plastics, DowAksa, Syensqo, UMATEX, 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 and CFRP market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Tons) and average price (US$/kg) 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 and CFRP Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Fiber and CFRP Market, Segmentation by Type:

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Carbon Fiber

CFRP

Global Carbon Fiber and CFRP Market, Segmentation by Application:

Aerospace and Defense

Sports/Leisure

Wind Energy

Pressure Vessel

Automotive

Other

Companies Profiled:

Toray

MCCFC

Teijin

Hexcel

Hyosung Advanced Materials

SGL Carbon

Formosa Plastics

DowAksa

Syensqo

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UMATEX

Taekwang Industrial

Zhongfu Shenying

Jilin Chemical Fiber

Baowu Carbon

Weihai Guangwei Composites

Sinofibers Technology

Jiangsu Hengshen

Newtech Group

Key Questions Answered:

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

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