

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

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Abstracts

The global Carbon Fiber market size is expected to reach \$ 8429 million by 2032, rising at a market growth of 13.0% CAGR during the forecast period (2026-2032).

Carbon fiber is a strong, lightweight material made primarily of carbon atoms that are bonded together in a crystalline structure. It is produced by heating polyacrylonitrile (PAN) or other precursor materials to high temperatures in a process called pyrolysis. The carbon atoms are aligned in long, thin strands, giving carbon fiber its exceptional strength-to-weight ratio, stiffness, and resistance to heat and corrosion. Carbon fiber is widely used in various industries, including aerospace, automotive, sports equipment, and renewable energy, due to its superior properties compared to traditional materials like steel and aluminum.

Upstream, carbon fiber is primarily derived from three precursor materials: Polyacrylonitrile (PAN), Pitch, and Rayon. Downstream, carbon fiber is mainly used in Aerospace and Defense, Sports and Leisure, Wind Energy, Pressure Vessels, and Automotive industries.

In 2024, global sales of carbon fiber reached approximately 143 K tons, with an average global market price of around US\$ 23/kg. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 30% to 60%.

The global carbon fiber capacity is expected to continue growing as industries increasingly recognize the material's advantages in terms of strength, weight, and sustainability. However, challenges remain, such as high production costs and the need for new manufacturing technologies. In the future, innovations in recycling and reusing carbon fiber are likely to further drive the expansion of the market, making carbon fiber

more cost-effective and sustainable. Producers like Toray, SGL Carbon, MCCFC and some new companies in China are actively to invest in new capacity.

Market Drivers:

Growing Demand for Lightweight Materials: The automotive, aerospace, and sports industries are increasingly adopting carbon fiber due to its high strength-to-weight ratio. It helps improve fuel efficiency in vehicles and aircraft, which is driving its demand.

Environmental Benefits: Carbon fiber components contribute to reducing the carbon footprint of vehicles and industrial machinery by enabling lighter designs, which consume less energy.

Advancements in Manufacturing Technologies: The development of cost-effective manufacturing processes, such as automated fiber placement and 3D printing, is helping reduce production costs and make carbon fiber more accessible for mass production.

Increasing Adoption in Renewable Energy: Carbon fiber is being used in wind turbine blades, where its strength and lightness help improve the efficiency of renewable energy systems. This contributes to the growth of carbon fiber demand in the energy sector.

Aerospace and Defense Sector: The demand for advanced materials in military and commercial aerospace applications continues to drive market growth. Carbon fiber's use in fuselages, wings, and other critical components is growing due to its superior performance characteristics.

High-Performance Sports Equipment: The demand for high-quality sporting goods such as bicycles, golf clubs, tennis rackets, and skis is driving the adoption of carbon fiber.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Carbon Fiber 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 market

Detailed Segmentation:

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Fiber Market, Segmentation by Type:

Regular-Tow Carbon Fiber

Large-Tow Carbon Fiber

Global Carbon Fiber Market, Segmentation by Precursor:

PAN-based

Pitch-based

Rayon-based

Global Carbon Fiber Market, Segmentation by Tow:

3K

6K

12K

24K

48K

Other

Global Carbon Fiber Market, Segmentation by Application:

Wind Energy

Sports/Leisure

Aerospace and Defense

Pressure Vessel

Automotive

Other

Companies Profiled:

Toray

MCCFC

Teijin

Hexcel

Hyosung Advanced Materials

SGL Carbon

Formosa Plastics

DowAksa

Syensqo

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

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