

Global Carbon Fibre Composite Materials Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GF5314EC7E27EN.html>

Date: January 2026

Pages: 168

Price: US\$ 4,480.00 (Single User License)

ID: GF5314EC7E27EN

Abstracts

The global Carbon Fibre Composite Materials market size is expected to reach \$ 15190 million by 2032, rising at a market growth of 10.2% CAGR during the forecast period (2026-2032).

In 2025, global carbon fiber composite material production reached 130,968 tons, with an average selling price of US\$57.2 per kilogram. Global annual production capacity for carbon fiber composite materials is approximately 200,000 tons, with a gross profit margin of approximately 20.2%. Carbon fiber composite materials are high-performance composite materials reinforced with carbon fibers. Carbon fibers possess excellent properties such as high strength, high modulus, and low density. When combined with a resin matrix, they form composite materials with excellent mechanical properties, high-temperature resistance, and corrosion resistance. The upstream of the carbon fiber composite material industry chain includes polyacrylonitrile, asphalt, and viscose fiber; the midstream consists of carbon fiber composite material manufacturers; and the downstream mainly comprises industries such as automotive, aerospace, military, and sports.

The carbon fiber composite materials industry is experiencing strong growth momentum. With the rapid development of aerospace, automotive, wind energy, and other industries, the demand for lightweight, high-performance materials is growing, driving the widespread application of carbon fiber composite materials. In the future, the carbon fiber composite materials industry is expected to continue its rapid growth and gradually penetrate more fields, such as construction and sports goods.

Key industry trends include:

Increased adoption in aerospace and automotive industries: Carbon fiber composites are increasingly being used in aircraft structures, automotive components, and other applications to reduce weight and improve fuel efficiency.

Growing demand from the wind energy sector: As the wind energy industry expands,

the demand for lightweight, durable materials like carbon fiber composites for wind turbine blades is increasing.

Advancements in manufacturing technologies: Continuous advancements in manufacturing processes, such as automated fiber placement and 3D printing, are enabling the production of complex carbon fiber components with improved performance and reduced costs.

Focus on sustainability and recyclability: The industry is increasingly prioritizing the development of sustainable carbon fiber composites and recycling technologies to minimize environmental impact.

Emerging applications in other sectors: Carbon fiber composites are finding new applications in various sectors, including sports equipment, construction, and electronics, as their performance benefits become more widely recognized.

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

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

Highlights and key features of the study

Global Carbon Fibre Composite Materials total production and demand, 2021-2032, (Tons)

Global Carbon Fibre Composite Materials total production value, 2021-2032, (USD Million)

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

Global Carbon Fibre Composite Materials consumption by region & country, CAGR, 2021-2032 & (Tons)

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

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

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

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

This report profiles key players in the global Carbon Fibre Composite Materials 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, Mitsubishi Chemical, Teijin, Hexcel, Syensqo, SGL Group, Baowu Carbon, Saertex, Hyosung, Aksa Carbon, 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 Fibre Composite Materials 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 Fibre Composite Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Fibre Composite Materials Market, Segmentation by Type:

Thermoplastic Carbon Fibre Composite Materials

Thermosetting Carbon Fibre Composite Materials

Global Carbon Fibre Composite Materials Market, Segmentation by Carbon Fiber

Types:

Polyacrylonitrile-Based Carbon Fiber Composites

Pitch-Based Carbon Fiber Composites

Viscose-Based Carbon Fiber Composites

Global Carbon Fibre Composite Materials Market, Segmentation by Carbon Fiber Morphology:

Continuous Fiber Composites

Short Fiber Composites

Medium- And Long Fiber Composites

Global Carbon Fibre Composite Materials Market, Segmentation by Application:

Automobile

Aerospace and Military

Sports

Wind Turbine

Others

Companies Profiled:

Toray

Mitsubishi Chemical

Teijin

Hexcel

Syensqo

SGL Group

Baowu Carbon

Saertex

Hyosung

Aksa Carbon

Ensinger

Weihai Guangwei Composites

Jiangsu Hengshen

Zhongfu Shenying

Sinofibers Technology

Jilin Chemical Fibre

Avic Aviation High Technology

Newtech Group

Jinggong Technology

K.SAKAI Co.,LTD

CompLam Material

TSUDAKOMA

Key Questions Answered:

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

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