

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

<https://marketpublishers.com/r/G5491813F700EN.html>

Date: January 2026

Pages: 167

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

ID: G5491813F700EN

Abstracts

The global Carbon Fiber Reinforced Matrix Composite 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, the global production of carbon fiber reinforced matrix composites reached 130,968 tons, with an average selling price of US\$57.2 per kilogram. The global annual production capacity of carbon fiber reinforced matrix composites is approximately 200,000 tons, with a gross profit margin of approximately 20.2%. Carbon fiber reinforced matrix composites 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 reinforced matrix composites industry chain includes polyacrylonitrile, asphalt, and viscose fiber, the midstream consists of carbon fiber reinforced matrix composite manufacturers, and the downstream mainly comprises industries such as automotive, aerospace, military, and sports.

Carbon fiber reinforced polymer (CFRP) composites are rapidly becoming key materials in aerospace, automotive, wind power, and sporting goods industries due to their high strength, high modulus, low density, and good corrosion resistance, with market demand continuing to grow. However, high cost, complex manufacturing processes, and challenges in recycling remain major bottlenecks restricting expansion. In recent years, with economies of scale, easing raw material cost fluctuations, the promotion of automotive lightweighting policies, and the development of new resin systems and additive manufacturing technologies, the CFRP market has shown a stable expansion trend. Regional markets are dominated by North America, Europe, and the Asia-Pacific region, while its application boundaries in aerospace, energy, and infrastructure

continue to expand, driving investment and technological innovation across the entire industry chain.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Carbon Fiber Reinforced Matrix Composite 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 Carbon, 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 Fiber Reinforced Matrix Composite 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 Reinforced Matrix Composite Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Fiber Reinforced Matrix Composite Market, Segmentation by Type:

Thermoplastic Carbon Fibre Composite Materials

Thermosetting Carbon Fibre Composite Materials

Global Carbon Fiber Reinforced Matrix Composite Market, Segmentation by Carbon Fiber Types:

Polyacrylonitrile-Based Carbon Fiber Composites

Pitch-Based Carbon Fiber Composites

Viscose-Based Carbon Fiber Composites

Global Carbon Fiber Reinforced Matrix Composite Market, Segmentation by Carbon Fiber Morphology:

Continuous Fiber Composites

Short Fiber Composites

Medium- And Long Fiber Composites

Global Carbon Fiber Reinforced Matrix Composite Market, Segmentation by Application:

Automobile

Aerospace and Military

Sports

Wind Turbine

Others

Companies Profiled:

Toray

Mitsubishi Chemical

Teijin

Hexcel

Syensqo

SGL Carbon

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 Fiber Reinforced Matrix Composite market?
2. What is the demand of the global Carbon Fiber Reinforced Matrix Composite market?
3. What is the year over year growth of the global Carbon Fiber Reinforced Matrix Composite market?
4. What is the production and production value of the global Carbon Fiber Reinforced Matrix Composite market?

5. Who are the key producers in the global Carbon Fiber Reinforced Matrix Composite market?
6. What are the growth factors driving the market demand?

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