

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

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## Abstracts

The global Carbon Fiber Surface Mat market size is expected to reach \$ 593 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

Carbon fiber surface mat is a nonwoven reinforcing material formed by randomly distributed carbon fibers. It is typically used as a surface layer in composite materials to improve surface smoothness, corrosion resistance, and mechanical strength. This material can enhance the appearance and durability of composite products while maintaining lightweight properties. Carbon fiber surface mat is widely used in aerospace components, lightweight automotive structures, wind power equipment, sporting goods, and high-performance industrial composite materials, and is particularly suitable for products with high requirements for strength, stiffness, and surface quality. The carbon fiber surface mat industry chain includes upstream carbon fiber raw materials, bonding resins, additives, and related chemical materials. The midstream covers fiber processing, mat forming, bonding and curing, cutting, and quality inspection. Downstream applications mainly include aerospace composite components, lightweight automotive structures, wind turbine blades, marine equipment, sporting goods, and advanced industrial composite products. Supporting industries provide logistics, technical consulting, material testing, and product customization services to ensure quality stability and reliability in high-performance applications. In 2025, global carbon fiber surface mat production was approximately 8,000 tons, with a global average market price of approximately US\$45 per kilogram. The gross profit margin of major companies in the industry ranges from 35% to 55%. In 2025, the global production capacity of carbon fiber surface mat is estimated to be approximately 10,667 tons.

The Carbon Fiber Surface Mat market is growing due to rising demand for lightweight, high-strength composite materials across aerospace, automotive, and renewable

energy sectors. These mats improve surface finish, corrosion resistance, and mechanical performance in advanced composite structures. Technological progress in carbon fiber production, resin systems, and composite manufacturing processes is enhancing product performance and reducing production costs. Increasing adoption of lightweight materials in electric vehicles, wind energy equipment, and industrial components is further driving demand. Manufacturers are focusing on improving fiber distribution uniformity, bonding strength, and compatibility with different resin systems. As industries continue to prioritize lightweight design, durability, and energy efficiency, the global demand for carbon fiber surface mats is expected to expand steadily in the coming years.

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

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

### **Highlights and key features of the study**

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

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

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

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

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

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

Global Carbon Fiber Surface Mat production by Type, production, value, CAGR,

2021-2032, (USD Million) & (Tons)

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

This report profiles key players in the global Carbon Fiber Surface Mat 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 Sunwell Carbon Fiber Composite, Jiaxing Doshine New Material, Horyen Composites, Nanjing EFG, Karbon Composites & Technology, Nanjing Koptech New Material, Creative Fibre Products, Shanchuan Composite, Vulcan, Zhongtian Junda Glassfiber Products, 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 Surface Mat market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) 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 Surface Mat Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Carbon Fiber Surface Mat Market, Segmentation by Type:

Less than 100GSM

100-300 GSM

More than 300GSM

#### Global Carbon Fiber Surface Mat Market, Segmentation by Fiber Type:

PAN-based Carbon Fiber Surface Mat

Pitch-based Carbon Fiber Surface Mat

Recycled Carbon Fiber Surface Mat

#### Global Carbon Fiber Surface Mat Market, Segmentation by Binder Type:

Thermoset Binder Carbon Fiber Mat

Thermoplastic Binder Carbon Fiber Mat

Binder-Free Carbon Fiber Mat

#### Global Carbon Fiber Surface Mat Market, Segmentation by Application:

Automotive

Aerospace

Construction

Electronic and Electrical

Others

#### Companies Profiled:

Sunwell Carbon Fiber Composite

Jiaxing Doshine New Material

Horyen Composites

Nanjing EFG

Karbon Composites & Technology

Nanjing Koptech New Material

Creative Fibre Products

Shanchuan Composite

Vulcan

Zhongtian Junda Glassfiber Products

Qingdao Aerolite Technology

Guangzhou Makers Composite

Jiangsu Zeyusen Carbon Fiber Technology Co., Ltd

Hitex Composites

**Key Questions Answered:**

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

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