

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

<https://marketpublishers.com/r/GD09AC9E0F37EN.html>

Date: August 2026

Pages: 135

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

ID: GD09AC9E0F37EN

Abstracts

The global Aerospace Grade Carbon Fiber market size is expected to reach \$ 1075 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

Aerospace grade carbon fiber refers to high-performance carbon fiber materials that can be used for aerospace structural components, spacecraft parts, satellite platforms, launch vehicles, aerospace primary or secondary load-bearing composite structures. This type of carbon fiber typically has characteristics such as high strength, high modulus, low density, fatigue resistance, low thermal expansion, good dimensional stability, high batch consistency, and strong traceability. It can be used in combination with epoxy resin, bismaleimide resin, polyimide resin, or carbon carbon composite material systems. Strictly speaking, 'aerospace grade' not only represents high mechanical performance, but also means that materials need to meet aerospace customer certification, model validation, process adaptation, long-term reliability, and extreme environmental stability requirements. In 2025, global Aerospace Grade Carbon Fiber production reached approximately 18.73 K MT, with an average global market price of around US\$ 36.75 per kg.

Aerospace grade carbon fiber is a key strategic material that supports the lightweight, high-strength, and high reliability development of modern aerospace equipment. With excellent specific strength, specific modulus, fatigue resistance, and low thermal expansion characteristics, this material can significantly reduce the weight of aircraft structures, improve structural stiffness and load bearing capacity, and help spacecraft maintain stable performance under temperature fluctuations, vibration impacts, vacuum irradiation, and long-term service environments. In the field of aircraft, aerospace grade carbon fiber can be used for wings, fuselage, tail fins, beams, ribs, skins, cabin doors,

fairings, and drone structural components; In the aerospace field, it can be used for satellite load-bearing frames, solar wing substrates, antenna reflectors, optical platforms, rocket shells, interstage segments, engine shells, pressure vessels, and carbon thermal protection components.

From the perspective of material systems, aerospace grade carbon fibers mainly include high-strength, medium modulus high-strength, high-strength high modulus, high modulus, and asphalt based high modulus carbon fibers. PAN based carbon fiber is the mainstream route in aerospace structural materials, suitable for load-bearing structures, composite material shells, and pressure vessels; Asphalt based carbon fibers are more prominent in their high modulus, high thermal conductivity, and low thermal expansion characteristics, making them suitable for satellite thermal control, precision support, and spatially stable structures. In the future, with the development of commercial aerospace, low orbit satellite constellations, reusable rockets, high-altitude long endurance unmanned aerial vehicles, advanced military aircraft, and composite pressure vessels, aerospace grade carbon fiber will play a more important role in lightweight structures, multifunctional composite materials, thermal control structures, and high reliability load-bearing components.

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

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

Highlights and key features of the study

Global Aerospace Grade Carbon Fiber total production and demand, 2021-2032, (Kilotons)

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

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

Global Aerospace Grade Carbon Fiber consumption by region & country, CAGR, 2021-2032 & (Kilotons)

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

Global Aerospace Grade Carbon Fiber production by manufacturer, production, price,

value and market share 2021-2026, (USD Million) & (Kilotons)

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

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

This report profiles key players in the global Aerospace Grade 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, Hexcel, Teijin, Mitsubishi Chemical, SGL Group, HS HYOSUNG ADVANCED MATERIALS, Aksa Karbon, Formosa, TAEKWANG Industrial, Zhongfu Shenying Carbon Fiber, 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 Aerospace Grade Carbon Fiber market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) 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 Aerospace Grade Carbon Fiber Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Aerospace Grade Carbon Fiber Market, Segmentation by Type:

Carbon Wire 1K

Carbon Wire 3K

Carbon Wire 6K

Carbon Wire 12K

Carbon Wire 24K

Global Aerospace Grade Carbon Fiber Market, Segmentation by Raw Material:

PAN Based Carbon Fiber

Asphalt Based Carbon Fiber

Adhesive Based Carbon Fiber

Global Aerospace Grade Carbon Fiber Market, Segmentation by Spinning Process:

Wet Spinning Process

Dry Spinning Process

Global Aerospace Grade Carbon Fiber Market, Segmentation by Application:

Aerospace

National Defense and Military Industry

Companies Profiled:

Toray

Hexcel

Teijin

Mitsubishi Chemical

SGL Group

HS HYOSUNG ADVANCED MATERIALS

Aksa Karbon

Formosa

TAEKWANG Industrial

Zhongfu Shenying Carbon Fiber

Guangwei

Jiangsu Hengshen

Jilin Chemical Fiber Group

Key Questions Answered:

1. How big is the global Aerospace Grade Carbon Fiber market?
2. What is the demand of the global Aerospace Grade Carbon Fiber market?
3. What is the year over year growth of the global Aerospace Grade Carbon Fiber market?
4. What is the production and production value of the global Aerospace Grade Carbon

Fiber market?

5. Who are the key producers in the global Aerospace Grade Carbon Fiber market?

6. What are the growth factors driving the market demand?

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