

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

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Abstracts

The global Aviation-Grade Carbon Fiber Prepregs market size is expected to reach \$ 5361 million by 2032, rising at a market growth of 8.4% CAGR during the forecast period (2026-2032).

In 2025, global Aviation-Grade Carbon Fiber Prepregs production reached approximately 31.05 k tons, with an average global market price of around USD 95,000 per ton.

The gross profit margin of major companies in the industry is between 24.58%-43.76%.

In 2025, the global production capacity of Aviation-Grade Carbon Fiber Prepregs was approximately 40.86 k tons.

Aviation-Grade Carbon Fiber Prepregs are composite intermediate materials made by impregnating aerospace-qualified carbon fiber fabrics or tapes with controlled resin systems. They are designed for high strength-to-weight ratio, fatigue resistance, thermal stability, process consistency and strict traceability. The product is used in aircraft structures, rotor blades, fairings, interior structural parts, UAV airframes, space components and high-performance aviation tooling. The market includes unidirectional and woven prepregs for aviation and aerospace applications, but excludes ordinary industrial prepregs, dry carbon fabrics and finished composite parts.

The industry chain includes PAN-based carbon fiber, epoxy resin, tougheners, curing agents, release films, backing papers, solvents, resin films and prepreg coating equipment. Midstream production covers fiber spreading, resin formulation, impregnation, thickness control, volatile control, quality testing, cold storage packaging

and traceability management. Downstream demand comes from aircraft manufacturing, aerospace structures, UAV platforms, maintenance repair, composite tooling and high-performance aviation components. Growth is driven by aircraft lightweighting, fuel efficiency, fleet renewal, advanced air mobility and expanded use of composite structures.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Aviation-Grade Carbon Fiber Prepregs 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 Industries, Inc., Hexcel Corporation, Syensqo SA, Mitsubishi Chemical Group Corporation, Teijin Limited, Park

Aerospace Corp., Axiom Materials, Inc., AVIC Aviation High-Technology Co., Ltd., Weihai Guangwei Composites Co., Ltd., Jiangsu Hengshen Co., Ltd., 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 Aviation-Grade Carbon Fiber Prepregs 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 Aviation-Grade Carbon Fiber Prepregs Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Aviation-Grade Carbon Fiber Prepregs Market, Segmentation by Type:

Epoxy Carbon Fiber Prepregs

BMI Carbon Fiber Prepregs

Cyanate Ester Carbon Fiber Prepregs

Global Aviation-Grade Carbon Fiber Prepregs Market, Segmentation by Reinforcement Form:

Unidirectional Prepregs

Woven Fabric Prepregs

Multiaxial Fabric Prepregs

Global Aviation-Grade Carbon Fiber Prepregs Market, Segmentation by Fiber Areal Weight:

Lightweight??150 g/m??

Medium Weight?151?300 g/m??

Heavyweight??300 g/m??

Global Aviation-Grade Carbon Fiber Prepregs Market, Segmentation by Application:

Aircraft Fuselage Structures

Aircraft Wing Structures

Aircraft Interior and Secondary Structures

Other

Companies Profiled:

Toray Industries, Inc.

Hexcel Corporation

Syensqo SA

Mitsubishi Chemical Group Corporation

Teijin Limited

Park Aerospace Corp.

Axiom Materials, Inc.

AVIC Aviation High-Technology Co., Ltd.

Weihai Guangwei Composites Co., Ltd.

Jiangsu Hengshen Co., Ltd.

Zhongfu Shenying Carbon Fiber Co., Ltd.

Key Questions Answered:

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

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