

Carbon Fiber Composites Market Size, Share & Trends Analysis Report By Raw Material (PAN-based Carbon Fiber, Pitch-based Carbon Fiber, Rayon-based Carbon Fiber), By Application (Aerospace & Defense, Wind Energy), By Region, And Segment Forecasts, 2025 - 2033

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Abstracts

Summary

The global carbon fiber composites market size was estimated at USD 24.37 billion in 2024 and is projected to reach USD 47.91 billion by 2033, growing at a CAGR of 7.8% from 2025 to 2033. The demand for carbon fiber composites is increasing as industries transition toward lightweight, high-strength materials to meet fuel efficiency and emission reduction goals.

Aerospace OEMs are increasing the penetration of composites in next-generation aircraft structures, driving long-term demand. Automotive manufacturers are increasingly adopting carbon fiber for body panels, monocoques, and EV components to enhance performance and extend driving range. Wind energy is witnessing strong uptake, with larger turbine blades requiring high-stiffness materials. Industrial uses such as pressure vessels, robotics, and sporting goods are expanding rapidly. Rising investments in renewable energy and clean mobility are strengthening consumption.

A significant demand driver is the global shift toward lightweighting across aerospace, automotive, and energy markets. Growing EV production is boosting the demand for carbon fiber components that reduce vehicle weight while maintaining structural strength. The wind energy sector requires larger, more durable blades that depend

heavily on carbon fiber composites for stiffness-to-weight advantages. The increasing adoption of automation and industrial robotics is driving the demand for high-performance mechanical structures. Expanding use in high-pressure hydrogen storage tanks is another strong driver, aligned with global clean fuel strategies. Technological improvements in precursor materials and automated fabrication processes are reducing costs, enabling wider adoption. The rise of premium sports equipment and performance applications also contributes to steady demand.

The market is witnessing a shift toward low-cost carbon fiber precursors like PAN alternatives, lignin-based fibers, and recycled carbon fiber. Advancements in automated fiber placement (AFP), additive manufacturing, and resin infusion are improving production efficiency and reducing manufacturing costs. OEMs are increasingly integrating hybrid composites that combine carbon fiber with thermoplastics for faster cycle times and improved recyclability. The aerospace sector is adopting higher-temperature resins and next-generation prepregs for improved performance. Growth in hydrogen tanks and battery enclosures is emerging as a key trend. Wind OEMs are moving toward ultra-long blades that require high-modulus carbon fiber. Sustainability innovations such as reclaimed fiber and circular composite solutions are gaining traction rapidly.

Global Carbon Fiber Composites Market Report Segmentation

This report forecasts revenue growth at the global, regional & country levels and provides an analysis on the industry trends in each of the sub-segments from 2021 to 2033. For the purpose of this study, Grand View Research has segmented the global carbon fiber composites market report on the basis of raw material, application, and region:

Raw Material Outlook (Revenue, USD Million, 2021 - 2033)

PAN-based Carbon Fiber

Pitch-based Carbon Fiber

Rayon-based Carbon Fiber

Application Outlook (Revenue, USD Million, 2021 - 2033)

Aerospace & Defense

Automotive

Wind Energy

Industrial

Construction & Infrastructure

Others

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Spain

Asia Pacific

China

Japan

India

South Korea

Central & South America

Middle East & Africa

Saudi Arabia

UAE

Egypt

Qatar

Kuwait

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