

# Opportunities and Competitive Analysis of the Carbon Fiber Market

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## Abstracts

The future of the carbon fiber market looks attractive with opportunities in the aerospace, industrial, and sporting goods industries. The global carbon fiber market declined in 2020 due to the global economic recession led by COVID-19. However, the market will witness recovery in the year 2021, and it is expected to reach an estimated \$3.5 billion by 2026 with a CAGR of 5.5% from 2021 to 2026. The major drivers for market growth are growing demand for high performance and lightweight composite materials and increasing performance requirements in the end use industries.

Emerging trends, which have a direct impact on the dynamics of the industry, include the emergence of new applications and initiatives to innovate and commercialize the use of alternative precursors to reduce the manufacturing costs of carbon fiber. Toray, Mitsubishi, Teijin, Hexcel, SGL, and Cytac Solvay Group are among the major carbon fiber manufacturers.

A total of 140 figures / charts and 142 tables are provided in this 314-page report to help in your business decisions. A sample figure with insights is shown below. To learn the scope of benefits, companies researched, and other details of the global carbon fiber market report, please download the report brochure.

The study includes trends and forecast for the global carbon fiber market by end use industry, precursor type, tow size, modulus, and region as follows:

By End Use Industry [Volume (M lbs) and \$M shipment analysis from 2015 to 2026]:

Aerospace

## Commercial

Regional Jets

General Aviation

Helicopter

Defense

Space

Industrial

Wind Energy

Marine

Transportation/Automotive

Civil/Construction

Electrical and Electronics (E&E)

Others

Sporting Goods

Golf clubs

Rackets

Skis, snowboards and other winter sports equipment

Fishing poles

Others

By Precursor Type [Volume (M lbs) and \$M shipment analysis from 2015 to 2026]:

Pan

Pitch

By Tow Size [Volume (M lbs) and \$M shipment analysis from 2015 to 2026]:

Small Tow (24k)

By Modulus [Volume (M lbs) and \$M shipment analysis from 2015 to 2026]:

Standard

Intermediate

High

By Region [Volume (M lbs) and \$M shipment analysis from 2015 to 2026]:

North America

Europe

Rest of the world (Asia Pacific)

In this market, pan based carbon fiber and pitch bases carbon fiber are used to manufacture composites parts for various end use industry. Lucintel forecasts that pan based carbon fiber will remain the largest segment and it is also expected to witness the highest growth due to its wide application area in transportation, aerospace/defense, and wind energy industries.

Lucintel forecasts that industrial will be the largest end use industry and the sporting goods segment will witness the highest growth during the forecast period. Increasing demand for high performance lightweight materials in the automotive industry and

growing demand for carbon composites in wind turbine with the increasing length of wind blades are driving market growth over the forecast period.

Europe is expected to remain the largest market and witness the highest growth over the forecast period due to demand from the industries of aerospace, automotive, and wind energy.

Emerging trends, which have a direct impact on the dynamics of the industry, include the emergence of new applications and initiatives to innovate and commercialize the use of alternative precursors to reduce the manufacturing costs of carbon fiber.

Some of the global carbon fiber manufacturers profiled in this report include are Toray, Mitsubishi, Teijin, Hexcel, SGL, and Cytac Solvay Group.

#### Features of the Global Carbon Fiber Market

**Market Size Estimates:** Carbon fiber market size estimation in terms of value (\$M) and volume (M lbs) shipment

**Trend and Forecast Analysis:** Carbon fiber market trends (2015-2020) and forecast (2021-2026) by various segments and regions.

**Segmentation Analysis:** Carbon fiber market size by various segments, such as end use industry, precursor type, tow size, modulus, and region in terms of value and volume.

**Regional Analysis:** Carbon fiber market breakdown by North America, Europe, Rest of the World (including Asia Pacific).

**Growth Opportunities:** Analysis on growth opportunities in different end use industry, by precursor type, tow size, modulus, and regions for the global carbon fiber market.

**Strategic Analysis:** This includes M&A, new product development, and competitive landscape for the global carbon fiber market.

**Analysis of competitive intensity of the industry based on Porter's Five Forces model.**

This report answers following 11 key questions

Q.1 What are some of the most promising potential, high-growth opportunities for the carbon fiber market by end use industry (aerospace, industrial and sporting goods), by precursor type (Pan and Pitch), by tow size (small tow (24k), by modulus (standard, intermediate, and high) and region (North America, Europe, and the Rest of the World (including Asia Pacific))?

Q.2 Which segments will grow at a faster pace and why?

Q.3 Which regions will grow at a faster pace and why?

Q.4 What are the key factors affecting market dynamics? What are the drivers and challenges of the carbon fiber market?

Q.5 What are the business risks and threats to the carbon fiber market?

Q.6 What are emerging trends in this carbon fiber market and the reasons behind them?

Q.7 What are some changing demands of customers in the carbon fiber market?

Q.8 What are the new developments in the carbon fiber market? Which companies are leading these developments?

Q.9 Who are the major players in this carbon fiber market? What strategic initiatives are being implemented by key players for business growth?

Q.10 What are some of the competitive products and processes in this carbon fiber area and how big of a threat do they pose for loss of market share via material or product substitution?

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