

# **Global Carbon Fiber Thread Market Size study & Forecast, by Product Type (Continuous Carbon Fiber Thread, Chopped Carbon Fiber Thread), by End-Use Industry (Aerospace, Automotive, Sports and Recreation, Construction and Infrastructure, Others) and Regional Analysis, 2023-2030**

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## **Abstracts**

Global Carbon Fiber Thread Market is valued at approximately USD 1.6 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 5.3% over the forecast period 2023-2030. Carbon Fiber Threads are thin, lightweight strands made mostly of carbon atoms. They are incredibly strong and have a high tensile strength. The production process involves selecting a precursor material such as polyacrylonitrile (PAN), pitch, or rayon, which is then spun or melted into filaments. These fibers are stabilized and then undergo carbonization, where they are heated to high temperatures in a controlled environment. This process removes non-carbon components and transforms the fibers into strong, lightweight Carbon Fiber Threads. The growing need for lightweight and strong materials in industries such as aerospace and automotive is fueling the market for Carbon Fiber Threads. Additionally, the rising demand for renewable energy, driven by concerns over the environmental impact of conventional energy sources such as fossil fuels, has led to increased usage of renewable sources such as wind energy.

The aerospace industry requires lightweight materials to enhance fuel efficiency and improve overall performance. Carbon fiber threads are highly sought after in aerospace applications due to their exceptional strength-to-weight ratio, making them a prime choice for the industry. According to the Aerospace Industries Association (AIA) in 2022, the industry's global leadership in innovation and the export of aerospace

products is a crucial factor for workforce success. In 2021, exports from the Aerospace And Defense (A&D) industry saw a significant growth of 11.2%, reaching a total value of USD 100.4 billion. Moreover, the A&D workforce experienced a modest increase of around 6,000 employees in 2021, representing a 0.3% rise compared to the previous year. Additionally, the rise in demand for sustainable and eco-friendly materials and growing demand for renewable energy sources provides lucrative opportunities to the market. However, the excessive cost of producing Carbon Fiber Thread stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Carbon Fiber Thread Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Asia Pacific dominated the market in 2022 owing to increasing disposable income, urbanization, a growing middle class, and growing demand in the automotive sector. Asia Pacific is expected to grow significantly over the forecast period, owing to rising disposable income, and a growing automotive and aerospace sector. Additionally, government initiatives promoting lightweight materials and sustainable manufacturing further drive the demand for Carbon Fiber Threads in the region.

Major market player included in this report are:

SGL Carbon

Mitsubishi Chemical Corporation

Kureha Corporation

Hexcel Corporation

Formosa Plastics Corporation

Beijing Konfitex Technology Co., Ltd.

Toray Industries, Inc.

Teijin Limited

ZhongAo Carbon

Solvay S.A.

Recent Developments in the Market:

In November 2021, Toray Industries, Inc. announced plans to enhance the production capacity of large-tow carbon fiber through its subsidiary, Zoltek Companies, Inc., in the United States. The increased capacity aims to meet the growing demand for large-tow carbon fiber and ensure a stable supply, thereby driving the growth of the Carbon Fiber Thread Market.

In March 2023, Hexcel Corporation established a new research and technology center in Utah, focusing on advanced composites technologies. The state-of-the-art facility includes a modern laboratory where scientists and researchers collaborate with clients

on cutting-edge composite developments for various sectors such as industrial, aerospace, space, and defense. This expansion facilitates increased carbon fiber production, contributing to the growth of the Carbon Fiber Thread Market.

Global Carbon Fiber Thread Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Product Type, End-Use Industry, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Product Type:

Continuous Carbon Fiber Thread

Chopped Carbon Fiber Thread

By End Use Industry:

Aerospace

Automotive

Sports and Recreation

Construction and Infrastructure

Others

By Region:

North America

U.S.  
Canada

Europe  
UK  
Germany  
France  
Spain  
Italy  
ROE

Asia Pacific  
China  
India  
Japan  
Australia  
South Korea  
RoAPAC

Latin America  
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Mexico

Middle East & Africa  
Saudi Arabia  
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