

Carbon fiber Thread Market Report Revealing the Latest Trends and Outlook for Advancements by 2032

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WILMINGTON, DELAWARE, UNITED STATES, November 23, 2023 /EINPresswire.com/ -- The [carbon fiber thread market](#) has been experiencing steady growth due to the increasing demand in various industries such as aerospace, automotive, sports and recreation, construction, and more. Carbon fiber threads are known for their lightweight, high strength, and resistance to corrosion, making them valuable in applications where these properties are crucial.



Carbon fiber Thread Market Research

According to the report, the global carbon fiber thread market was valued at \$1.6 billion in 2022, and is projected to reach \$2.7 billion by 2032, growing at a CAGR of 5.3% from 2023 to 2032.

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Carbon fiber threads are extensively used in aircraft, spacecraft, and military applications due to their strength-to-weight ratio, enhancing fuel efficiency and performance.

Manufacturers use carbon fiber threads in vehicle components to reduce weight and improve fuel efficiency without compromising strength and safety.

The global carbon fiber thread market is experiencing growth due to several factors, including the fact that carbon fiber thread is used profitably in a variety of end-use industries, an increase

in the demand for lightweight vehicles, and a surge in renewable energy sources. On the other hand, the high cost of carbon fiber thread production hampered growth to some extent. The cost factor can limit its widespread adoption, especially in price-sensitive industries or applications where cost competitiveness is crucial. Furthermore, the shift towards electric vehicles (EVs) presents a significant opportunity for carbon fiber thread manufacturers.

Carbon fiber threads are utilized in sporting goods like bicycles, tennis rackets, golf clubs, and fishing rods due to their lightweight and durability, appealing to performance-oriented consumers.

Carbon fiber threads are finding application in wind turbines and other renewable energy sectors due to their high strength and fatigue resistance.

The continuous carbon fiber thread segment held the highest market share in 2022, accounting for nearly three-fifths of the global carbon fiber thread market revenue and is estimated to maintain its leadership status throughout the forecast period. The same segment would also display the fastest CAGR of 5.4% from 2023 to 2032. Continuous carbon fiber thread offers a high strength-to-weight ratio, making it an ideal material for industries that require lightweight components with exceptional strength. Industries such as aerospace, automotive, and sporting goods prioritize weight reduction to improve fuel efficiency, performance, and overall product functionality.

They're used to reinforce structures, providing strength and durability in building materials.

The market faces challenges such as high manufacturing costs and limited production capacities, which impact their widespread adoption. However, ongoing technological advancements and efforts to reduce production costs may positively influence market growth.

The aerospace segment held the highest market share in 2022, accounting for more than one-third of the global carbon fiber thread market and is projected to rule the roost in terms of revenue during the forecast period. The aerospace industry constantly seeks ways to reduce the weight of aircraft to improve fuel efficiency and increase payload capacity. Carbon fiber thread offers an excellent solution due to its remarkable strength-to-weight ratio. By utilizing carbon fiber thread in the manufacturing of aircraft structures, including wings, fuselages, and empennages, engineers can significantly reduce weight without compromising on structural integrity, thereby achieving lighter and more fuel-efficient aircraft.

The carbon fiber thread market is competitive, with several key players like Toray Industries, Teijin Limited, Hexcel Corporation, SGL Carbon, and Mitsubishi Chemical Corporation dominating the industry. Innovation in production techniques and materials is likely to drive the market further, potentially expanding its applications into newer industries and segments.

Asia-Pacific held the highest market share in terms of revenue in 2022, accounting for nearly half of the global carbon fiber thread market and is expected to maintain its dominance throughout the forecast period. The same region would also exhibit the fastest CAGR of 5.5% from 2023 to 2032. Carbon fiber thread offers significant weight reduction compared to traditional materials, enabling automakers to produce vehicles that are more environmentally friendly and economical to operate. The adoption of carbon fiber thread in the automotive industry in the Asia-Pacific region is driven by the need to meet strict emissions regulations, enhance vehicle performance, and cater to the preferences of eco-conscious consumers.

Key players in the carbon fiber thread market:

- MITSUBISHI CHEMICAL CORPORATION.
- BEIJING KONFITEK TECHNOLOGY CO. LTD.
- TEIJIN LIMITED
- Solvay S.A.
- SGL Carbon
- KUREHA CORPORATION
- Hexcel Corporation.
- Formosa Plastics Corporation
- ZHONGAO CARBON
- TORAY INDUSTRIES, INC.
- Beijing Konfitek Technology Co. Ltd.

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