

Carbon Fiber - Company Evaluation Report, 2025

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Abstracts

The Carbon Fiber Companies Quadrant is comprehensive industry analysis that provides valuable insights into the global market for Carbon Fiber. This quadrant offers a detailed evaluation of key market players, technological advancements, product innovations, and emerging trends shaping the industry. MarketsandMarkets 360 Quadrants evaluated over 100 companies, of which the Top 14 Carbon Fiber Companies were categorized and recognized as the quadrant leaders.

Carbon fiber, also known as graphite fiber, is formed by linking carbon atoms into a long chain structure. When combined with resin, carbon fiber filaments can be woven into fabrics or molded into permanent forms as composite materials. Depending on the intended use, carbon fiber can be chopped or employed as reinforcement in Long Fiber Thermoplastic (LFT) composites. Carbon fiber is mainly categorized into two types based on the raw material: pitch-based and PAN-based. The PAN-based carbon fiber segment currently dominates the market. These fibers consist of carbon atoms with diameters ranging from approximately five to ten micrometers. Carbon fiber is prized for its high tensile strength, lightweight nature, high stiffness, excellent heat resistance, and minimal thermal expansion. These characteristics drive its demand across aerospace, civil engineering, military, motorsports, and other high-performance sports sectors. However, carbon fiber tends to be more costly than alternatives like glass or plastic fibers.

Pitch is derived through the distillation of carbon-rich substances such as crude oil, coal, and plant matter. Compared to plastic and glass fibers, carbon fiber carries a higher price tag. This elevated cost remains the primary barrier to broader market adoption.

The 360 Quadrant maps the Carbon Fiber companies based on criteria such as revenue, geographic presence, growth strategies, investments, and sales strategies for the market presence of the Carbon Fiber quadrant. The top criteria for product footprint

evaluation included By RAW MATERIAL (Pan-Based Carbon Fiber, Pitch-Based Carbon Fiber), By FIBER TYPE (Virgin Carbon Fiber, Recycled Carbon Fiber), By MODULUS (Standard Modulus, Intermediate Modulus, High Modulus), By PRODUCT TYPE (Continuous Carbon Fiber, Long Carbon Fiber, Short Carbon Fiber), By APPLICATION (Composites, Non-Composites), and By END-USE INDUSTRY (Aerospace & Defense, Wind Energy, Automotive, Pipes, Sporting Goods, Medical & Healthcare, Construction & Infrastructure, Pressure Vessels, Marine, Other End-Use Industries).

Key Players

Key players in the Carbon Fiber market include major global corporations and specialized innovators such as Toray Industries, Inc., Dowaksa, Mitsubishi Chemical Group Corporation, Syensqo, Teijin Limited, Sgl Carbon, Hexcel Corporation, Hs Hyosung Advanced Materials, Zhongfu Shenying Carbon Fiber Co., Ltd., Kureha Corporation, Osaka Gas Chemicals Co., Ltd., Umatex, Jilin Chemical Fiber Group Co., Ltd., Jiangsu Hengshen Co., Ltd., and China National Bluestar (Group) Co., Ltd.. These companies are actively investing in research and development, forming strategic partnerships, and engaging in collaborative initiatives to drive innovation, expand their global footprint, and maintain a competitive edge in this rapidly evolving market.

Top 3 Companies

Toray Industries, Inc.

As a leader in the carbon fiber market, Toray Industries Inc. is renowned for its innovative product line under the TORAYCA brand. With operations in over 20 countries including Japan, China, and the US, Toray's comprehensive product portfolio and commitment to sustainability drive its market positioning. The company's robust strategy involves expanding its production facilities and developing recycled carbon fiber applications in collaboration with technology partners like Lenovo.

Hexcel Corporation

Hexcel Corporation stands out for its HexTow continuous carbon fiber, primarily catering to aerospace applications such as the Airbus A350 and Boeing 787. The company maintains its competitive edge through consistent innovation and strategic facility expansions across North America, Europe, and Asia Pacific. Hexcel's product portfolio is broad, covering various sectors like automotive and industrial applications, further

securing its ranking and market share.

Teijin Limited

Teijin Limited, through its Tenax product line, is a formidable player known for high-performance carbon fibers that deliver thermal stability and superior mechanical properties. Teijin's market footprint is extensive across sectors such as aerospace, automotive, and sports equipment. The company's strategy encompasses a blend of innovation and partnerships aimed at enhancing its carbon fiber product offerings and strengthening its presence in the global market.

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