

**Textile Composites Market By Fiber Type (Carbon Fiber, Glass Fiber, Aramid Fiber, Polyethylene Fiber (UHMWPE), Basalt Fiber, Others), By Textile Type (Woven, Non-woven), By Application (Automotive, Aerospace, Construction, Marine, Sports Equipment, Industrial Insulation, Others): Global Opportunity Analysis and Industry Forecast, 2022 - 2032**

Market Report | 2024-01-01 | 405 pages | Allied Market Research

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**Report description:**

The global textile composites market was valued at \$7.3 billion in 2022 and is estimated to reach \$14.2 billion by 2032, exhibiting a CAGR of 6.9% from 2023 to 2032.

Textile composites are innovative materials that are formed from the strategic combination of textile fibers with other materials, typically a polymer matrix. This synergy creates a hybrid material with properties superior to those of its individual components, resulting in materials that are lightweight, strong, and versatile. The integration between textiles and non-textile elements allows for the tailoring of physical and mechanical attributes, making textile composites highly adaptable for a wide range of applications across industries.

One prominent category of textile composites is fiber-reinforced composites, in which, high-strength fibers are embedded within a matrix material, often a polymer resin. The orientation and alignment of these fibers play a pivotal role in determining the composite's mechanical properties. For instance, carbon fibers, known for their exceptional strength and low weight, are frequently employed in aerospace applications to reinforce components such as wings, fuselage structures, and interior elements of aircraft.

The consumer goods and sports equipment industries are witnessing surge in demand for high-performance and aesthetically appealing products. Textile composites, with their ability to combine strength, flexibility, and design versatility, are increasingly used in the manufacturing of consumer goods such as luggage, backpacks, and furniture. In the sports and leisure sector, composite materials are integral to the production of equipment such as tennis rackets, golf clubs, and bicycles, where lightweight

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yet robust materials are essential for optimal performance.

Moreover, textile composites play a crucial role in defense and security applications, particularly in the development of ballistic protection gear. High-strength fibers such as Kevlar are woven into textiles and combined with resins to create materials that offer exceptional resistance to ballistic impact. As security concerns persist globally, there is a continuous need for advanced materials that can provide reliable protection to military and law enforcement personnel. This drives the adoption of textile composites in the defense and security sectors.

However, while textile composites offer excellent strength-to-weight ratios, they may have limitations in design flexibility as compared to traditional materials such as metals. Production processes, such as weaving or molding, may impose restrictions on intricate designs. In industries where complex and highly customized designs are essential, such as in some aerospace and automotive applications. Thus, limitation in design flexibility of textile composites may reduce its demand across aerospace and automobile sectors, thus restraining the market growth. Also, the long-term durability and performance of textile composites can be a concern, particularly in harsh environmental conditions. Exposure to factors like UV radiation, moisture, and temperature variations can affect the integrity of the composite materials over time. Understanding and predicting the long-term behavior of textile composites is a challenge that requires continuous research and testing. The development of protective coatings and additives to enhance durability is an area of ongoing exploration to address this restraint and improve the reliability of textile composites.

However, as global infrastructure development projects continue to rise, textile composites present opportunities in the construction sector. For instance, textile-reinforced concrete enhances the tensile strength of structures, providing durability and flexibility. This versatility of textile composites can contribute to innovative and cost-effective solutions in the construction industry which in turn may create lucrative opportunities for the textile composites market.

The global textile composites market is segmented on the basis of fiber type, textile type, application, and region. On the basis of fiber type, the market is categorized into carbon fiber, glass fiber, aramid fiber, polyethylene fiber (UHMWPE), basalt fiber, and others. By textile type, the market is classified into woven and non-woven. On the basis of application, it is divided into automotive, aerospace, construction, marine, sports equipment, industrial insulation, and others. Region-wise, the market is studied across North America, Europe, Asia-Pacific, and LAMEA.

The global textile composites market profiles leading players that include Chomarat, SAERTEX Group, BGF Industries, Sigmalex, TORAY INDUSTRIES, INC., HYOSUNG TNC, TEIJIN LIMITED, Owens Corning, Hexcel Corporation, and Composite Fabrics of America. The global textile composites market report provides in-depth competitive analysis as well as profiles of these major players.

#### Key Benefits For Stakeholders

This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the textile composites market analysis from 2022 to 2032 to identify the prevailing textile composites market opportunities.

The market research is offered along with information related to key drivers, restraints, and opportunities.

Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.

In-depth analysis of the textile composites market segmentation assists to determine the prevailing market opportunities.

Major countries in each region are mapped according to their revenue contribution to the global market.

Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.

The report includes the analysis of the regional as well as global textile composites market trends, key players, market segments, application areas, and market growth strategies.

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- Additional country or region analysis- market size and forecast
- Average Selling Price Analysis / Price Point Analysis
- Expanded list for Company Profiles
- Historic market data
- Import Export Analysis/Data
- Key player details (including location, contact details, supplier/vendor network etc. in excel format)
- SWOT Analysis
- Volume Market Size and Forecast

Key Market Segments By Application Automotive

- Aerospace
- Construction
- Marine
- Sports Equipment
- Industrial Insulation
- Others
- By Fiber Type Carbon Fiber
- Glass Fiber
- Aramid Fiber
- Polyethylene Fiber (UHMWPE)
- Basalt Fiber
- Others
- By Textile Type Woven
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- Canada
- Mexico
- Europe Germany
- UK
- France
- Spain

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