

Global Carbon Fiber Non Crimp Fabric Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Carbon Fiber Non Crimp Fabric market size is expected to reach \$ 1700 million by 2032, rising at a market growth of 6.9% CAGR during the forecast period (2026-2032).

Carbon Fiber Non Crimp Fabric, more commonly written as Carbon Fiber NCF, is a textile reinforcement for composite materials in which continuous carbon fiber tows are laid in one or more straight, non-woven and non-interlaced directions, and then fixed together mainly by stitching, knitting thread, light binder or a combination of these methods. Unlike woven carbon fabric, the carbon fiber bundles in NCF are not bent over and under each other, so the fibers remain straighter and the laminate can achieve higher in-plane tensile, compressive and flexural efficiency. Depending on the design, it can be supplied as unidirectional, biaxial, triaxial, quadraxial or customized multiaxial reinforcement, and is widely used in resin infusion, RTM, wet pressing, prepregging and other composite molding processes.

In 2025, global sales of Carbon Fiber Non Crimp Fabric reached approximately 21 K tons, with an average global market price of around US\$ 49/kg. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 20% to 40%.

Carbon Fiber Non-Crimp Fabric is an engineering-oriented reinforcement material in the carbon fiber composite value chain. Its demand is mainly driven by wind energy, aerospace, automotive lightweighting, marine structures, rail transit, infrastructure reinforcement and industrial composite parts. Compared with woven carbon fabrics, NCF keeps the fiber bundles straighter and allows fiber orientations to be designed according to load paths, thereby improving laminate efficiency and lay-up productivity.

Overall, it should not be viewed as a commodity textile, but as a high-performance intermediate material for composite manufacturing. Customers usually focus on mechanical consistency, drapability, resin infusion behavior, width stability and batch-to-batch reliability.

Market growth is mainly supported by lightweighting, structural efficiency improvement and composite manufacturing cost reduction. Larger wind turbine blades require efficient lay-up and stable directional reinforcement materials. Automotive and rail applications focus on weight reduction, strength improvement and scalable molding at controlled cost, while aerospace and defense applications emphasize high specific strength, high specific stiffness and structural design flexibility. As RTM, vacuum infusion, wet pressing and automated lay-up processes become more widely adopted, NCF is gaining stronger process compatibility compared with conventional woven fabrics and some prepreg systems, especially in applications requiring fast lay-up, complex-shape forming and multi-directional load bearing.

The market also faces several constraints. Carbon fiber raw material cost, tow supply stability and downstream project cycles can directly affect order release. In high-end applications, qualification cycles are long, and customers in aerospace, wind energy and automotive sectors have strict requirements for material consistency, defect control and long-term performance validation, which raises barriers for new entrants. NCF also competes with woven fabrics, unidirectional tapes, prepregs, glass fiber NCF and thermoplastic composite sheets. Looking ahead, market differentiation is expected to become more pronounced. Companies with carbon fiber access, fabric architecture design capability, stable wide-width production and close process collaboration with downstream customers are more likely to secure premium applications and long-term programs.

This report studies the global Carbon Fiber Non Crimp Fabric production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Carbon Fiber Non Crimp Fabric and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Carbon Fiber Non Crimp Fabric that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Carbon Fiber Non Crimp Fabric total production and demand, 2021-2032, (Tons)

Global Carbon Fiber Non Crimp Fabric Supply, Demand and Key Producers, 2026-2032

Global Carbon Fiber Non Crimp Fabric total production value, 2021-2032, (USD Million)
Global Carbon Fiber Non Crimp Fabric production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)
Global Carbon Fiber Non Crimp Fabric consumption by region & country, CAGR, 2021-2032 & (Tons)
U.S. VS China: Carbon Fiber Non Crimp Fabric domestic production, consumption, key domestic manufacturers and share
Global Carbon Fiber Non Crimp Fabric production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)
Global Carbon Fiber Non Crimp Fabric production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)
Global Carbon Fiber Non Crimp Fabric production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Carbon Fiber Non Crimp Fabric market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SAERTEX, Hexcel, Teijin, Toray, SGL Carbon, Sigmatech, Chomarat, Vectorply, Formosa Taffeta, PGTEX, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Carbon Fiber Non Crimp Fabric market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Carbon Fiber Non Crimp Fabric Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Fiber Non Crimp Fabric Market, Segmentation by Type:

Unidirectional NCF

Biaxial NCF

Triaxial NCF

Quadraxial NCF

Other

Global Carbon Fiber Non Crimp Fabric Market, Segmentation by Areal Weight:

? 600 g/m?

? 600 g/m?

Global Carbon Fiber Non Crimp Fabric Market, Segmentation by Material Composition:

Pure Carbon Fiber

Hybrid Fibers

Global Carbon Fiber Non Crimp Fabric Market, Segmentation by Application:

Automotive

Aerospace and Defense

Wind Energy

Marine

Sports and Leisure

Other

Companies Profiled:

SAERTEX

Hexcel

Teijin

Toray

SGL Carbon

Sigmatex

Chomarat

Vectorply

Formosa Taffeta

PGTEX

NMG Composites

Key Questions Answered:

1. How big is the global Carbon Fiber Non Crimp Fabric market?
2. What is the demand of the global Carbon Fiber Non Crimp Fabric market?
3. What is the year over year growth of the global Carbon Fiber Non Crimp Fabric market?
4. What is the production and production value of the global Carbon Fiber Non Crimp Fabric market?
5. Who are the key producers in the global Carbon Fiber Non Crimp Fabric market?
6. What are the growth factors driving the market demand?

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