

Global Carbon Fiber Reinforced Carbon Aerogel Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Carbon Fiber Reinforced Carbon Aerogel market size is expected to reach \$ 660 million by 2032, rising at a market growth of 12.9% CAGR during the forecast period (2026-2032).

Carbon Fiber Reinforced Carbon Aerogel (CFRCA) is an advanced lightweight composite material that combines a highly porous carbon aerogel matrix with embedded carbon fiber reinforcement, offering exceptional thermal insulation, mechanical strength, electrical conductivity, and resistance to extreme temperatures (often above 2000°C in inert environments). Its supply chain begins with upstream raw materials, including polymer precursors (e.g., resorcinol-formaldehyde or phenolic resins), carbon fibers (PAN-based or pitch-based), and catalysts/solvents. In the midstream manufacturing stage, the process involves sol-gel polymerization to form an organic aerogel, impregnation or integration with carbon fiber fabrics or felts, followed by aging, drying (supercritical or ambient), and high-temperature carbonization/pyrolysis to convert the structure into a fully carbonized aerogel composite; optional activation or graphitization may further enhance properties. The downstream stage includes machining, coating, and integration into end-use systems, with applications spanning aerospace thermal protection systems, high-temperature insulation, energy storage (e.g., electrodes), defense, and advanced industrial equipment, where performance in extreme environments is critical. In 2025, global Carbon Fiber Reinforced Carbon Aerogel output was about 5,500 tons with 8,000 tons of capacity, average prices of USD 40,000-90,000 per ton, and gross margins around 37%.

This report studies the global Carbon Fiber Reinforced Carbon Aerogel production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Carbon Fiber Reinforced Carbon Aerogel 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 Reinforced Carbon Aerogel that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Carbon Fiber Reinforced Carbon Aerogel total production and demand, 2021-2032, (Kilotons)

Global Carbon Fiber Reinforced Carbon Aerogel total production value, 2021-2032, (USD Million)

Global Carbon Fiber Reinforced Carbon Aerogel production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Carbon Fiber Reinforced Carbon Aerogel consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Carbon Fiber Reinforced Carbon Aerogel domestic production, consumption, key domestic manufacturers and share

Global Carbon Fiber Reinforced Carbon Aerogel production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Carbon Fiber Reinforced Carbon Aerogel production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Carbon Fiber Reinforced Carbon Aerogel production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Carbon Fiber Reinforced Carbon Aerogel 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 Aspen Aerogels (USA), Blueshift Materials (USA), Active Aerogels (Portugal), Armacell (Luxembourg), Enersens (France), Svenska Aerogel (Sweden), Guangdong Alison Hi-Tech (China), Zhejiang UGOO Technology (China), IBIH Advanced Materials (China), Ningbo Surnano Aerogel (China), 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 Reinforced Carbon Aerogel market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) 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 Reinforced Carbon Aerogel Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Fiber Reinforced Carbon Aerogel Market, Segmentation by Type:

Low Reinforcement (30 wt%)

Global Carbon Fiber Reinforced Carbon Aerogel Market, Segmentation by Density:

50?150 kg/m?

150?300 kg/m?

300?600 kg/m?

>600 kg/m?

Global Carbon Fiber Reinforced Carbon Aerogel Market, Segmentation by Application:

Automotive

Industrial

Energy

Aerospace & Defense

Others

Companies Profiled:

Aspen Aerogels (USA)

Blueshift Materials (USA)

Active Aerogels (Portugal)

Armacell (Luxembourg)

Enersens (France)

Svenska Aerogel (Sweden)

Guangdong Alison Hi-Tech (China)

Zhejiang UGOO Technology (China)

IBIH Advanced Materials (China)

Ningbo Surnano Aerogel (China)

Namate New Materials Technology (China)

Key Questions Answered:

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

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