

Global Carbon Nanofiber Mat Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Carbon Nanofiber Mat market size is expected to reach \$ 3583 million by 2032, rising at a market growth of 14.5% CAGR during the forecast period (2026-2032).

A Carbon Nanofiber (CNF) Mat is a nonwoven, porous sheet composed of entangled carbon nanofibers—typically produced by electrospinning polymer precursors (such as PAN, lignin, or pitch) followed by stabilization and high-temperature carbonization—offering high electrical conductivity, large specific surface area, mechanical flexibility, and thermal/chemical stability; these properties make CNF mats widely used in lithium-ion and sodium-ion battery electrodes, supercapacitors, fuel cells, EMI shielding, filtration, thermal management, and structural reinforcement. The supply chain begins upstream with precursor polymers, catalysts, solvents, and specialty chemicals, along with energy-intensive stabilization and carbonization equipment; midstream players include electrospinning and carbonization specialists that manufacture CNF mats in roll or sheet form with controlled fiber diameter, porosity, and surface functionality; downstream, the mats are integrated by battery manufacturers, energy-storage system suppliers, electronics and aerospace firms, filtration OEMs, and research institutions, with value increasingly driven by surface modification, composite integration, and application-specific customization rather than raw material cost alone. In 2025, global Carbon Nanofiber Mat production is estimated at approximately 14 million m² against an installed production capacity of about 19 million m² per year, with average unit prices ranging from USD 75–185 per m² depending on fiber diameter, conductivity, and surface functionalization, while leading manufacturers typically achieve gross margins of around 44%.

This report studies the global Carbon Nanofiber Mat production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Carbon Nanofiber Mat total production and demand, 2021-2032, (K Sqm)

Global Carbon Nanofiber Mat total production value, 2021-2032, (USD Million)

Global Carbon Nanofiber Mat production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global Carbon Nanofiber Mat consumption by region & country, CAGR, 2021-2032 & (K Sqm)

U.S. VS China: Carbon Nanofiber Mat domestic production, consumption, key domestic manufacturers and share

Global Carbon Nanofiber Mat production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)

Global Carbon Nanofiber Mat production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

Global Carbon Nanofiber Mat production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global Carbon Nanofiber Mat 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 Materic (USA), US Research Nanomaterials (USA), Stellenbosch (South Africa), NanoAmor (USA), MK Nano (Canada), Elmarco (Czech), Fiberio Technology (USA), Finetex (South Korea), Nanoval (Germany), Toray (Japan), 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 Nanofiber Mat market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sqm) and average price (US\$/Sq m) 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 Nanofiber Mat Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Nanofiber Mat Market, Segmentation by Type:

Thin CNF Mat (150 μ m)

Global Carbon Nanofiber Mat Market, Segmentation by Electrical Conductivity:

Low-conductivity CNF Mat (100 S/cm)

Global Carbon Nanofiber Mat Market, Segmentation by Application:

Energy Storage

Automotive

Aerospace & Defense

Industrial

Healthcare

Others

Companies Profiled:

Materic (USA)

US Research Nanomaterials (USA)

Stellenbosch (South Africa)

NanoAmor (USA)

MK Nano (Canada)

Elmarco (Czech)

Fiberio Technology (USA)

Finetex (South Korea)

Nanoval (Germany)

Toray (Japan)

Teijin (Japan)

Kuraray (Japan)

Johns Manville (USA)

Ahlstrom (Finland)

Key Questions Answered:

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

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