

Global Carbon Nanofiber Mat Market Growth 2026-2032

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Abstracts

The global Carbon Nanofiber Mat market size is predicted to grow from US\$ 1320 million in 2025 to US\$ 3570 million in 2032; it is expected to grow at a CAGR of 15.4% from 2026 to 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%.

United States market for Carbon Nanofiber Mat is estimated to increase from US\$

million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Carbon Nanofiber Mat is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Carbon Nanofiber Mat is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Carbon Nanofiber Mat players cover Materic (USA), US Research Nanomaterials (USA), Stellenbosch (South Africa), NanoAmor (USA), MK Nano (Canada), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the “Carbon Nanofiber Mat Industry Forecast” looks at past sales and reviews total world Carbon Nanofiber Mat sales in 2025, providing a comprehensive analysis by region and market sector of projected Carbon Nanofiber Mat sales for 2026 through 2032. With Carbon Nanofiber Mat sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Carbon Nanofiber Mat industry.

This Insight Report provides a comprehensive analysis of the global Carbon Nanofiber Mat landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Carbon Nanofiber Mat portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Carbon Nanofiber Mat market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Carbon Nanofiber Mat and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Carbon Nanofiber Mat.

This report presents a comprehensive overview, market shares, and growth opportunities of Carbon Nanofiber Mat market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Thin CNF Mat (150 μm)

Segmentation by Electrical Conductivity:

Low-conductivity CNF Mat (100 S/cm)

Segmentation by Application:

Energy Storage

Automotive

Aerospace & Defense

Industrial

Healthcare

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered

from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Carbon Nanofiber Mat market?

What factors are driving Carbon Nanofiber Mat market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Carbon Nanofiber Mat market opportunities vary by end market size?

How does Carbon Nanofiber Mat break out by Type, by Application?

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