

Global Carbon Nanofiber Mat Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GFF38AD3F742EN.html>

Date: January 2026

Pages: 114

Price: US\$ 3,480.00 (Single User License)

ID: GFF38AD3F742EN

Abstracts

According to our (Global Info Research) latest study, the global Carbon Nanofiber Mat market size was valued at US\$ 1388 million in 2025 and is forecast to a readjusted size of US\$ 3583 million by 2032 with a CAGR of 14.5% during review period.

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 is a detailed and comprehensive analysis for global Carbon Nanofiber Mat market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Carbon Nanofiber Mat market size and forecasts, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global Carbon Nanofiber Mat market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global Carbon Nanofiber Mat market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global Carbon Nanofiber Mat market shares of main players, shipments in revenue (\$ Million), sales quantity (K Sqm), and ASP (US\$/Sq m), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Carbon Nanofiber Mat
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Carbon Nanofiber Mat market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Carbon Nanofiber Mat market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Thin CNF Mat (150 μm)

Market segment by Electrical Conductivity

Low-conductivity CNF Mat (100 S/cm)

Market segment by Application

Energy Storage

Automotive

Aerospace & Defense

Industrial

Healthcare

Others

Major players covered

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)

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Carbon Nanofiber Mat product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Carbon Nanofiber Mat, with price, sales quantity, revenue, and global market share of Carbon Nanofiber Mat from 2021 to 2026.

Chapter 3, the Carbon Nanofiber Mat competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Carbon Nanofiber Mat breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Carbon Nanofiber Mat market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Carbon Nanofiber Mat.

Chapter 14 and 15, to describe Carbon Nanofiber Mat sales channel, distributors, customers, research findings and conclusion.

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