

Global Nanofiber Market Size study, by Product Type (Carbon Nanofiber, Composite Nanofiber, Metal and Metal Oxides Nanofiber, Polymeric Nanofiber, Carbohydrate Based Nanofiber, Ceramic Nanofiber), by Application (Water and Air Filtration, Automotive and Transportation, Textiles, Medical, Electronics, Energy Storage, Other Applications) and Regional Forecasts 2021-2027

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Abstracts

Global Nanofiber Market is valued at approximately USD 0.7 billion in 2020 and is anticipated to grow with a healthy growth rate of more than 17.5 % over the forecast period 2021-2027. A nanofiber is a narrow, thread-like filament, either natural or synthetic, with dimensions ranging from 50 nm to 1000 nm. 10-9m is equivalent to 1 nanometer. Nanofibers are a rapidly increasing market, with significant research and development being conducted in a variety of industries. Nanofibers have only been on the market for a few decades, but research reveals that they have enormous promise. Nanofibers are also showing great promise in the industries of electronics, medicine, pharmaceuticals, and textiles, with plenty of space to expand globally. Nanofibers are typically placed to filtration substrates as a coating to boost filtering capacity. The physical properties of nanofibers, particularly their extensive interconnectivity and high specific surface area, prevent bacteria, viruses, and dust particles from passing through. Nanofibers are used to filter water, drinks/beverages, blood, chemicals, petrol, and oil in liquid filtration applications. Nanofibers feature distinct physical characteristics such as high porosity, a porous structure that is interconnected, and design flexibility. When compared to comparable commercial filters, the use of nanofiber substrates results in an initial increase in efficiency, smaller pressure drops, and significant energy savings.

Nanofibers have a variety of unique properties that allow them to be used in a variety of innovative textile applications. The structure of nanofibers is crucial for achieving functional applications in technical medical textiles (Medtech). The key creation mechanisms of structured functional nanofibers, such as core-shell, aligned, porous, composite, tubular, mechanical, and chemical, are discussed, along with a summary of the processes involved. Many researchers have recently focused on nanofibers as appropriate technologies and materials for Medtech, expanding the spectrum of medical textiles. However, rising environmental concerns due to the toxicity of nano products may impede market growth over the forecast period of 2021-2027.

The regional analysis of the Global Nanofiber Market is considered for the key regions such as Asia Pacific, North America, Europe, Latin America, and Rest of the World (ROW). Asia Pacific is the leading region across the world in terms of market share due to increasing demand from industries such as healthcare, aerospace and defense, energy, and automotive industries in the region. Whereas North America is also anticipated to exhibit the highest growth rate over the forecast period 2021-2027, due to increased requirement of nanofibers in the water filter technology across the region.

Major market player included in this report are:

Ahlstrom-Munksjo
Asahi Kasei Corporation
Donaldson Company, Inc.
DuPont
Nanofibers Solution LLC, Inc.
Toray Industries, Inc.
Espin Technologies
Elmarco S.R.O.
Mempro Ltd.
Revolution Fibers Ltd.

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and Product Type offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Product Type:

- Carbon Nanofiber
- Composite Nanofiber
- Metal and Metal Oxides Nanofiber
- Polymeric Nanofiber
- Carbohydrate Based Nanofiber
- Ceramic Nanofiber

By Application:

- Water and Air Filtration
- Automotive and Transportation
- Textiles
- Medical
- Electronics
- Energy Storage
- Other Applications

By Region:

- North America

 - U.S.

 - Canada

- Europe

 - UK

 - Germany

 - France

 - Spain

 - Italy

 - ROE

- Asia Pacific

 - China

 - India

 - Japan

 - Australia

 - South Korea

 - RoAPAC

- Latin America

 - Brazil

 - Mexico

 - Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2018,2019

Base year – 2020

Forecast period – 2021 to 2027.

Target Audience of the Global Nanofiber Market in Market Study:

Key Consulting Companies & Advisors

Large, medium-sized, and small enterprises

Venture capitalists

Value-Added Resellers (VARs)

Third-party knowledge providers

Investment bankers

Investors

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