

# **Nanocellulose Market by Type (MFC & NFC, CNC/NCC), Raw Material (Wood, Non-wood), Application (Paper & Pulp, Composites, Paints & Coatings, Biomedical & Pharmaceuticals, Electronics & Sensors), and Region - Global Forecast to 2030**

<https://marketpublishers.com/r/NF93A3A1BC9EN.html>

Date: March 2023

Pages: 185

Price: US\$ 4,950.00 (Single User License)

ID: NF93A3A1BC9EN

## **Abstracts**

The nanocellulose market is projected to grow from USD 0.4 billion in 2022 to USD 2.0 billion by 2030, at a CAGR of 21.9% from 2022 to 2030.. The global market for nanocellulose is driven by major factors such growth in various applications, rising concerns regarding the environment and the increasing demand for highly sustainable products.

“By type, the MFC & NFC segment is estimated to be the fastest-growing segment of nanocellulose market during 2022 to 2030.”

Based on type, the MFC & NFC is estimated to be the fastest growing segment during the forecast period.

MFC can be used in fiber-based materials, water-based dispersions and solutions, and other applications such as composites, concrete, and hydrogels.

“The wood segment in raw material is projected to register the highest CAGR during the forecast period.”

Based on raw material, the wood is projected to register the highest CAGR during the forecast period. Wood-based nanocelluloses find applications in newly developed nanocomposites, adhesives, and wastewater treatment; hence, the segment is expected to witness significant growth during the forecast period.

“By application, the composite segment is estimated to be the fastest-growing segment of nanocellulose market during 2022 to 2030.”

Based on application, the composite is estimated to be the fastest-growing segment during the forecast period. Composites are used in various applications such as in the automotive & aerospace industry, interiors are designed with nanocellulose-reinforced composite materials to reduce the weight and improve the performance of materials

The nanocellulose market in Europe region is projected to witness the highest CAGR during the forecast period.”

Europe region is projected to register the highest CAGR in the nanocellulose market from 2022 to 2030. Europe is one of the key market for nanocellulose. The region has high demand for the nanocellulose due to rising demand from various applications such as paper & pulp, composites, among others.

Profile break-up of primary participants for the report:

By Company Type: Tier 1 – 55%, Tier 2 – 27%, and Tier 3 – 18%

By Designation: C-level Executives – 36%, Directors – 18%, and Others – 46%

By Region: Asia Pacific – 10%, North America – 35%, Europe – 45%, Rest of the World- 10%

The nanocellulose report is dominated by players, such as Fiberlean Technologies (UK), Borregaard (Norway), Nippon Paper Group (Japan), Celluforce (Canada), Kruger Inc. (Canada), Stora Enso (Finland), RISE Innventia (Sweden), American Process Inc. (U.S.), FPInnovations (Canada), UPM (Finland) and others

Research Coverage:

The report defines, segments, and projects the size of the nanocellulose market based on type, raw material, application and region. It strategically profiles the key players and comprehensively analyzes their market share and core competencies. It also tracks and analyzes competitive developments, such as investments, expansions, product launches, mergers and acquisitions, partnerships, raising funds, and agreements,

undertaken by them in the market.

#### Reasons to Buy the Report:

The report is expected to help the market leaders/new entrants in the market by providing them the closest approximations of revenue numbers of the nanocellulose market and its segments. This report is also expected to help stakeholders obtain an improved understanding of the competitive landscape of the market, gain insights to improve the position of their businesses and make suitable go-to-market strategies. It also enables stakeholders to understand the pulse of the market and provide them information on key market drivers, restraints, challenges, and opportunities.

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\* Business Overview, Products/Solutions/Services Offered, Recent Developments, and MnM View might not be captured in case of unlisted companies.

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## About

The report “Nanocellulose Market by Type, Application, and Geography - Regional Trends & Forecast to 2019” defines and segments the nano cellulose market with an analysis and forecast of value by type, such as cellulose nanocrystals, cellulose nanofibrils, cellulose nanocomposites, and others. Along with this, the value and volumes of nano cellulose by application and region are also discussed in the report.

Nanocellulose market is projected to register a market size in terms of value of \$250 Million by 2019, signifying firm annualized CAGR of 19% between 2014 and 2019.

The report also identifies the driving and restraining factors for nanocellulose market with an analysis of drivers, restraints, opportunities, and strengths. The market is segmented and the value has been forecasted on the basis of important regions, such as Asia-Pacific, North America, Europe, and Rest of the World (RoW). Further, the market is segmented and the demand and value are forecasted on the basis of various key applications of nano cellulose, such as composites and packaging, paper and paper board, biomedicine, and other applications.

The application of nano cellulose in the end-user industries is witnessing a revolutionary change mainly due to the commercial development of nano cellulose driven by the increasing petroleum prices and the high-energy intensity in the production of chemicals and synthetic polymers. Nano cellulose is being developed for the novel use in applications ranging from scaffolds in tissue engineering, artificial skin and cartilage, wound healing, and vessel substitutes to biodegradable food packaging.

The nano cellulose is considered as a viable alternative to the more expensive high tech materials such as carbon fibers and carbon nanotubes. Since nano cellulose is made from tightly packed array of needle like crystals, it becomes incredibly tough. This makes it perfect for building future body armors that are both strong and light. Nano cellulose is also being used to make ultra-absorbent aerogels, fuel efficient cars, biofuel, and many more. Nano cellulose has also been used as a tablet binder in the pharmaceutical companies, with gradual increasing applications in tampons, advance wound healing, and developing a vital role in existing healthcare products.

North America is the largest market for nano cellulose currently and the same is expected to continue till 2019. This is because of continuous technological innovations, advancements in healthcare industry, and rising focus on biodegradable food

packaging. Europe market is expected to register second highest growth rate after North America. The Asia-Pacific market is expected to show a steady growth rate but the market is currently lower than North America and Europe. The U.S. and European countries are projected to be the hub of nano cellulose manufacturing in the world and are projected to be the major consumers of nano cellulose by 2019.

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