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Global Nanocellulose Market Size Study, By Type (MFC & NFC, CNC/NCC, Others), By Raw Material (Wood, Non-Wood), By Application (Pulp & Paper, Composites, Biomedical & Pharmaceuticals, Paints & Coatings, Electronics Sensors, Others), and Regional Forecasts 2022-2032

https://marketpublishers.com/r/GCD79D8EBA7AEN.html
Date: September 2024
Pages: 200
Price: US$ 3,218.00 (Single User License)
ID: GCD79D8EBA7AEN

Abstracts

Global Nanocellulose Market is valued at approximately USD 490 million in 2023 and is anticipated to grow with a healthy growth rate of more than 23.7% over the forecast period 2024-2032. Nanocellulose, a family of materials derived from plant-based cellulose fibers, is broken down into nanoscale particles. These particles exhibit exceptional properties such as high strength, flexibility, and biodegradability, making them suitable for various applications in packaging, biomedicine, and electronics. The increasing environmental concerns and the shift towards a circular economy have driven the demand for renewable and biodegradable materials like nanocellulose. Its unique qualities such as high strength, low density, and biodegradability make it ideal for a variety of applications in packaging, automotive, construction, and personal care industries.

Continuous research and development have led to advancements in nanocellulose production techniques, increasing efficiency and reducing costs. Institutional and industrial partnerships foster innovation and application, spreading nanocellulose's potential across various industries. Governments worldwide are encouraging the use of sustainable materials through subsidies, grants, and favorable policies, further boosting the nanocellulose market. Stricter environmental regulations against plastic and non-biodegradable materials are pushing industries towards sustainable alternatives like nanocellulose.

The growing need for environmentally friendly and sustainable materials is a significant

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driver for the nanocellulose market. The rising concern for the environment and demand for sustainable products boost the market demand. Moreover, nonrenewable resource constraints and the importance of biodegradable products shift market demand towards bio-based products. Nanocellulose offers biodegradability, low toxicity, improved strength, stiffness, and reduced weight, making it an ideal replacement for petroleum-based packaging, metallic parts, and other non-renewable materials. However, regulatory barriers present challenges to the market growth. The sector is new, and regulatory frameworks governing its manufacturing, usage, and disposal are still in the early stages. This regulatory opacity may hinder the commercialization of nanocellulose-based goods as businesses may be reluctant to invest in research and development.

Nanocellulose offers excellent mechanical properties, including high tensile strength and stiffness and low density, making it suitable for replacing conventional automobile parts such as plastics and metals. This shift towards lightweight vehicles promotes fuel efficiency, reduces greenhouse gas emissions, and aligns with global sustainability efforts. Nanocellulose increases the strength-to-weight ratio of components used in vehicles, enhancing their structural integrity and crash resistance. The commercial production of nanocellulose remains challenging due to concerns regarding the feasibility and cost-effectiveness of production techniques.

The key regions considered for the global nanocellulose market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. Europe is expected to dominate the global nanocellulose market throughout the forecast period. The region has a solid base of research and development activities, with a focus on advanced materials and nanotechnology. European governments proactively support sustainable technologies, including nanocellulose-based materials. The presence of a developed industrial base in industries like paper, packaging, and automotive also contributes to the market growth in Europe. Whereas, the market in Asia Pacific is anticipated to grow at the fastest rate over the forecast period fueled by surge in demand for sustainable and high-performance materials. Abundant forest resources, coupled with increasing environmental concerns and government support for renewable industries, are propelling market growth. Additionally, the region's burgeoning packaging, automotive, and construction sectors are major consumers of nanocellulose-based products, further stimulating demand.

Major market players included in this report are:
Fiberlean Technologies (UK)
Borregaard (Norway)
Nippon Paper Group (Japan)
Celluforce (Canada)

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Kruger Inc. (Canada)
Stora Enso (Finland)
RISE Innventia (Sweden)
American Process Inc. (US)
FPInnovations (Canada)
UPM (Finland)
Imerys (France)
GranBio (Brazil)
Oji Holdings Corporation (Japan)
Sappi (South Africa)
Paperlogic (US)

The detailed segments and sub-segments of the market are explained below:
By Type:
• MFC & NFC
• CNC/NCC
• Others
By Raw Material:
• Wood
• Non-Wood
By Application:
• Pulp & Paper
• Composites
• Biomedical & Pharmaceuticals
• Paints & Coatings
• Electronics Sensors
• Others
By Region:
• North America
• U.S.
• Canada
• Europe
• UK
• Germany
• France
• Spain
• Italy
• ROE
• Asia Pacific

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• China
• India
• Japan
• Australia
• South Korea
• RoAPAC
• Latin America
• Brazil
• Mexico
• RoLA
• Middle East & Africa
• Saudi Arabia
• South Africa
• RoMEA

Years considered for the study are as follows:

• Historical year – 2022
• Base year – 2023
• Forecast period – 2024 to 2032

Key Takeaways:

• Market Estimates & Forecast for 10 years from 2022 to 2032.
• Annualized revenues and regional level analysis for each market segment.
• Detailed analysis of geographical landscape with Country level analysis of major regions.
• Competitive landscape with information on major players in the market.
• Analysis of key business strategies and recommendations on future market approach.
• Analysis of competitive structure of the market.
• Demand side and supply side analysis of the market.

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