

Nanocellulose Market Report by Product Type (Nanofibrillated Cellulose (NFC), Nanocrystalline Cellulose (NCC), Bacterial Cellulose, Microfibrillated Cellulose (MFC), and Others), Application (Pulp and Paperboard, Composites, Pharmaceuticals and Biomedical, Electronics, Food and Beverages, and Others), and Region 2024-2032

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Abstracts

The global nanocellulose market size reached US\$ 574.7 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 2,479.8 Million by 2032, exhibiting a growth rate (CAGR) of 17.11% during 2024-2032. Growing product demand in numerous end-use industries, stringent regulations levied by government of several countries banning non-biodegradable packaging, and increasing usage of nanocellulose as a suitable ingredient in manufacturing healthcare products represent some of the key factors driving the market.

Nanocellulose is a type of nanostructured cellulose material that has unique physical and chemical properties which makes it suitable for a wide range of industrial applications. The material is derived from the refining of cellulose fibers and results in nanoscale materials with a high strength-to-weight ratio and remarkable thermal and mechanical stability. Nanocellulose can be sourced from natural sources such as wood, plants, bacteria, or algae. The separation process involves the use of high-pressure homogenizers to isolate nanosized fibrils or acid hydrolysis to produce hard nanoparticles. It is characterized by properties such as high tensile strength, biocompatibility, and stiffness as well as high viscosity. Nanocellulose is biodegradable and is produced from renewable resources and has a lower environmental impact compared to traditional materials. The versatility of nanocellulose makes it suitable for

various applications across a wide range of end-use industries.

Nanocellulose Market Trends:

The growing product demand in numerous end-use industries, such as paper and packaging, healthcare, and cosmetics, is a significant factor driving the market. This can be attributed to the escalating demand for sustainable and environmentally friendly materials and the shifting preference toward bio-based goods. In line with this, stringent regulations levied by the government of several countries banning non-biodegradable packaging, particularly for food and beverages, are propelling the demand for durable and lightweight packaging material, which, in turn, is driving the market. Moreover, the rapid product utilization in sheets for windows and electrical displays is creating lucrative growth opportunities in the market. Besides this, the growing adoption of nanocellulose-based sensors to monitor bridges and other structures to measure their degrees of stress is also impacting the market positively. The market is further fueled by the increasing usage of nanocellulose as a suitable ingredient in manufacturing wound dressings and sanitary napkins due to its non-toxicity and high adsorption capacity. Apart from this, continual technological advancements in the manufacturing of nanocellulose with increased paper machine efficiency and better filler content are creating a positive market outlook. Some of the other factors contributing to the market include rapid industrialization, growing product usage in construction activities, rising awareness regarding the adverse effects of using singular-use plastic packages, and extensive research and development (R&D) activities.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global nanocellulose market, along with forecasts at the global, regional, and country level from 2024-2032. Our report has categorized the market based on product type and application.

Product Type Insights

- Nanofibrillated Cellulose (NFC)
- Nanocrystalline Cellulose (NCC)
- Bacterial Cellulose
- Microfibrillated Cellulose (MFC)
- Others

The report has provided a detailed breakup and analysis of the nanocellulose market based on the product type. This includes Nanofibrillated Cellulose (NFC),

Nanocrystalline Cellulose (NCC), bacterial cellulose, Microfibrillated Cellulose (MFC) and others. According to the report, Microfibrillated Cellulose (MFC) represented the largest segment.

Application Insights

- Pulp and Paperboard
- Composites
- Pharmaceuticals and Biomedical
- Electronics
- Food and Beverages
- Others

A detailed breakup and analysis of the nanocellulose market based on the application has also been provided in the report. This includes pulp and paperboard, composites, pharmaceuticals and biomedical, electronics, food and beverages, and others. According to the report, pulp and paperboard accounted for the largest market share.

Regional Insights

- North America
 - United States
 - Canada
- Asia Pacific
 - China
 - Japan
 - India
 - South Korea
 - Australia
 - Indonesia
 - Others
- Europe
 - Germany
 - France
 - United Kingdom
 - Italy
 - Spain
 - Russia
 - Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets that include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and Middle East and Africa. According to the report, Europe was the largest market for nanocellulose. Some of the factors driving the Europe nanocellulose market include the rising awareness regarding the adverse effects of single-use plastic, rapid industrialization, shifting consumer preference for bio-based goods, etc.

Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global nanocellulose market. Detailed profiles of all major companies have also been provided. Some of the companies covered include Borregaard AS, Cellucomp Ltd, CelluForce, FiberLean Technologies Ltd, GranBio Technologies, Kruger Inc., Nippon Paper Industries Co. Ltd., Oji Holdings Corporation, Sappi Ltd, Stora Enso Oyj, etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report

1. How big is the global nanocellulose market?
2. What is the expected growth rate of the global nanocellulose market during 2024-2032?
3. What are the key factors driving the global nanocellulose market?
4. What has been the impact of COVID-19 on the global nanocellulose market?
5. What is the breakup of the global nanocellulose market based on the product type?
6. What is the breakup of the global nanocellulose market based on the application?
7. What are the key regions in the global nanocellulose market?
8. Who are the key players/companies in the global nanocellulose market?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL NANOCELLULOSE MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY PRODUCT TYPE

- 6.1 Nanofibrillated Cellulose (NFC)
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Nanocrystalline Cellulose (NCC)
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Bacterial Cellulose

- 6.3.1 Market Trends
- 6.3.2 Market Forecast
- 6.4 Microfibrillated Cellulose (MFC)
 - 6.4.1 Market Trends
 - 6.4.2 Market Forecast
- 6.5 Others
 - 6.5.1 Market Trends
 - 6.5.2 Market Forecast

7 MARKET BREAKUP BY APPLICATION

- 7.1 Pulp and Paperboard
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Composites
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Pharmaceuticals and Biomedical
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
- 7.4 Electronics
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast
- 7.5 Food and Beverages
 - 7.5.1 Market Trends
 - 7.5.2 Market Forecast
- 7.6 Others
 - 7.6.1 Market Trends
 - 7.6.2 Market Forecast

8 MARKET BREAKUP BY REGION

- 8.1 North America
 - 8.1.1 United States
 - 8.1.1.1 Market Trends
 - 8.1.1.2 Market Forecast
 - 8.1.2 Canada
 - 8.1.2.1 Market Trends
 - 8.1.2.2 Market Forecast

8.2 Asia-Pacific

8.2.1 China

8.2.1.1 Market Trends

8.2.1.2 Market Forecast

8.2.2 Japan

8.2.2.1 Market Trends

8.2.2.2 Market Forecast

8.2.3 India

8.2.3.1 Market Trends

8.2.3.2 Market Forecast

8.2.4 South Korea

8.2.4.1 Market Trends

8.2.4.2 Market Forecast

8.2.5 Australia

8.2.5.1 Market Trends

8.2.5.2 Market Forecast

8.2.6 Indonesia

8.2.6.1 Market Trends

8.2.6.2 Market Forecast

8.2.7 Others

8.2.7.1 Market Trends

8.2.7.2 Market Forecast

8.3 Europe

8.3.1 Germany

8.3.1.1 Market Trends

8.3.1.2 Market Forecast

8.3.2 France

8.3.2.1 Market Trends

8.3.2.2 Market Forecast

8.3.3 United Kingdom

8.3.3.1 Market Trends

8.3.3.2 Market Forecast

8.3.4 Italy

8.3.4.1 Market Trends

8.3.4.2 Market Forecast

8.3.5 Spain

8.3.5.1 Market Trends

8.3.5.2 Market Forecast

8.3.6 Russia

8.3.6.1 Market Trends

8.3.6.2 Market Forecast

8.3.7 Others

8.3.7.1 Market Trends

8.3.7.2 Market Forecast

8.4 Latin America

8.4.1 Brazil

8.4.1.1 Market Trends

8.4.1.2 Market Forecast

8.4.2 Mexico

8.4.2.1 Market Trends

8.4.2.2 Market Forecast

8.4.3 Others

8.4.3.1 Market Trends

8.4.3.2 Market Forecast

8.5 Middle East and Africa

8.5.1 Market Trends

8.5.2 Market Breakup by Country

8.5.3 Market Forecast

9 DRIVERS, RESTRAINTS, AND OPPORTUNITIES

9.1 Overview

9.2 Drivers

9.3 Restraints

9.4 Opportunities

10 VALUE CHAIN ANALYSIS

11 PORTERS FIVE FORCES ANALYSIS

11.1 Overview

11.2 Bargaining Power of Buyers

11.3 Bargaining Power of Suppliers

11.4 Degree of Competition

11.5 Threat of New Entrants

11.6 Threat of Substitutes

12 PRICE ANALYSIS

13 COMPETITIVE LANDSCAPE

13.1 Market Structure

13.2 Key Players

13.3 Profiles of Key Players

13.3.1 Borregaard AS

13.3.1.1 Company Overview

13.3.1.2 Product Portfolio

13.3.2 Cellucomp Ltd

13.3.2.1 Company Overview

13.3.2.2 Product Portfolio

13.3.3 CelluForce

13.3.3.1 Company Overview

13.3.3.2 Product Portfolio

13.3.4 FiberLean Technologies Ltd

13.3.4.1 Company Overview

13.3.4.2 Product Portfolio

13.3.5 GranBio Technologies

13.3.5.1 Company Overview

13.3.5.2 Product Portfolio

13.3.6 Kruger Inc.

13.3.6.1 Company Overview

13.3.6.2 Product Portfolio

13.3.7 Nippon Paper Industries Co. Ltd.

13.3.7.1 Company Overview

13.3.7.2 Product Portfolio

13.3.7.3 Financials

13.3.7.4 SWOT Analysis

13.3.8 Oji Holdings Corporation

13.3.8.1 Company Overview

13.3.8.2 Product Portfolio

13.3.8.3 Financials

13.3.9 Sappi Ltd

13.3.9.1 Company Overview

13.3.9.2 Product Portfolio

13.3.9.3 Financials

13.3.10 Stora Enso Oyj

13.3.10.1 Company Overview

13.3.10.2 Product Portfolio

13.3.10.3 Financials

13.3.10.4 SWOT Analysis

Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

List Of Tables

LIST OF TABLES

Table 1: Global: Nanocellulose Market: Key Industry Highlights, 2023 & 2032

Table 2: Global: Nanocellulose Market Forecast: Breakup by Product Type (in Million US\$), 2024-2032

Table 3: Global: Nanocellulose Market Forecast: Breakup by Application (in Million US\$), 2024-2032

Table 4: Global: Nanocellulose Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 5: Global: Nanocellulose Market: Competitive Structure

Table 6: Global: Nanocellulose Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Nanocellulose Market: Major Drivers and Challenges

Figure 2: Global: Nanocellulose Market: Sales Value (in Million US\$), 2018-2023

Figure 3: Global: Nanocellulose Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 4: Global: Nanocellulose Market: Breakup by Product Type (in %), 2023

Figure 5: Global: Nanocellulose Market: Breakup by Application (in %), 2023

Figure 6: Global: Nanocellulose Market: Breakup by Region (in %), 2023

Figure 7: Global: Nanocellulose (Nanofibrillated Cellulose (NFC)) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 8: Global: Nanocellulose (Nanofibrillated Cellulose (NFC)) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 9: Global: Nanocellulose (Nanocrystalline Cellulose (NCC)) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 10: Global: Nanocellulose (Nanocrystalline Cellulose (NCC)) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 11: Global: Nanocellulose (Bacterial Cellulose) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 12: Global: Nanocellulose (Bacterial Cellulose) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 13: Global: Nanocellulose (Microfibrillated Cellulose (MFC)) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 14: Global: Nanocellulose (Microfibrillated Cellulose (MFC)) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 15: Global: Nanocellulose (Other Product Types) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 16: Global: Nanocellulose (Other Product Types) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 17: Global: Nanocellulose (Pulp and Paperboard) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 18: Global: Nanocellulose (Pulp and Paperboard) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 19: Global: Nanocellulose (Composites) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 20: Global: Nanocellulose (Composites) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 21: Global: Nanocellulose (Pharmaceuticals and Biomedical) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 22: Global: Nanocellulose (Pharmaceuticals and Biomedical) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 23: Global: Nanocellulose (Electronics) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 24: Global: Nanocellulose (Electronics) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 25: Global: Nanocellulose (Food and Beverages) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 26: Global: Nanocellulose (Food and Beverages) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 27: Global: Nanocellulose (Other Applications) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 28: Global: Nanocellulose (Other Applications) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 29: North America: Nanocellulose Market: Sales Value (in Million US\$), 2018 & 2023

Figure 30: North America: Nanocellulose Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 31: United States: Nanocellulose Market: Sales Value (in Million US\$), 2018 & 2023

Figure 32: United States: Nanocellulose Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 33: Canada: Nanocellulose Market: Sales Value (in Million US\$), 2018 & 2023

Figure 34: Canada: Nanocellulose Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 35: Asia-Pacific: Nanocellulose Market: Sales Value (in Million US\$), 2018 & 2023

Figure 36: Asia-Pacific: Nanocellulose Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 37: China: Nanocellulose Market: Sales Value (in Million US\$), 2018 & 2023

Figure 38: China: Nanocellulose Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 39: Japan: Nanocellulose Market: Sales Value (in Million US\$), 2018 & 2023

Figure 40: Japan: Nanocellulose Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 41: India: Nanocellulose Market: Sales Value (in Million US\$), 2018 & 2023

Figure 42: India: Nanocellulose Market Forecast: Sales Value (in Million US\$),

2024-2032

Figure 43: South Korea: Nanocellulose Market: Sales Value (in Million US\$), 2018 & 2023

Figure 44: South Korea: Nanocellulose Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 45: Australia: Nanocellulose Market: Sales Value (in Million US\$), 2018 & 2023

Figure 46: Australia: Nanocellulose Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 47: Indonesia: Nanocellulose Market: Sales Value (in Million US\$), 2018 & 2023

Figure 48: Indonesia: Nanocellulose Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 49: Others: Nanocellulose Market: Sales Value (in Million US\$), 2018 & 2023

Figure 50: Others: Nanocellulose Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 51: Europe: Nanocellulose Market: Sales Value (in Million US\$), 2018 & 2023

Figure 52: Europe: Nanocellulose Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 53: Germany: Nanocellulose Market: Sales Value (in Million US\$), 2018 & 2023

Figure 54: Germany: Nanocellulose Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 55: France: Nanocellulose Market: Sales Value (in Million US\$), 2018 & 2023

Figure 56: France: Nanocellulose Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 57: United Kingdom: Nanocellulose Market: Sales Value (in Million US\$), 2018 & 2023

Figure 58: United Kingdom: Nanocellulose Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 59: Italy: Nanocellulose Market: Sales Value (in Million US\$), 2018 & 2023

Figure 60: Italy: Nanocellulose Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 61: Spain: Nanocellulose Market: Sales Value (in Million US\$), 2018 & 2023

Figure 62: Spain: Nanocellulose Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 63: Russia: Nanocellulose Market: Sales Value (in Million US\$), 2018 & 2023

Figure 64: Russia: Nanocellulose Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 65: Others: Nanocellulose Market: Sales Value (in Million US\$), 2018 & 2023

Figure 66: Others: Nanocellulose Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 67: Latin America: Nanocellulose Market: Sales Value (in Million US\$), 2018 & 2023

Figure 68: Latin America: Nanocellulose Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 69: Brazil: Nanocellulose Market: Sales Value (in Million US\$), 2018 & 2023

Figure 70: Brazil: Nanocellulose Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 71: Mexico: Nanocellulose Market: Sales Value (in Million US\$), 2018 & 2023

Figure 72: Mexico: Nanocellulose Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 73: Others: Nanocellulose Market: Sales Value (in Million US\$), 2018 & 2023

Figure 74: Others: Nanocellulose Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 75: Middle East and Africa: Nanocellulose Market: Sales Value (in Million US\$), 2018 & 2023

Figure 76: Middle East and Africa: Nanocellulose Market: Breakup by Country (in %), 2023

Figure 77: Middle East and Africa: Nanocellulose Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 78: Global: Nanocellulose Industry: Drivers, Restraints, and Opportunities

Figure 79: Global: Nanocellulose Industry: Value Chain Analysis

Figure 80: Global: Nanocellulose Industry: Porter's Five Forces Analysis

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