

# The Global Market for Cellulose Nanofibers 2022

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## Abstracts

Cellulose nanofibers (CNF), also called cellulose nanofibrils or nanofibrillated cellulose, are sustainable materials with high mechanical strength and stiffness (stronger than steel), high aspect ratios, high transparency, high chemical resistance and impressive rheological, optical and film-forming properties. They are also lightweight and have made a recent impact in industrial applications in biopolymers, bio-composites and hygiene and sanitary products.

Industrial products have been introduced to the market recently in packaging, composites and thermoplastics, biomedicine and hygiene, mainly in the Japanese market. Advanced applications in paper batteries and flexible electronics are also expected once current processing challenges have been overcome.

CNF production is now at the industrial scale, with numerous large paper manufacturers establishing multi-ton production facilities. Japanese chemicals manufacturers have also initiated cellulose nanofiber production capabilities. Facilities have also been established in Europe (mainly Scandinavia), Canada and the United States.

Report contents include:

Global production capacities, by CNF producer, current and planned.

Production volumes by region.

Commercialized products on the market incorporating CNFs.

Stage of commercialization for cellulose nanofiber applications by company (TRL).

CNF applications by industry.

Demand in tons per market, current and forecast to 2032.

Market drivers, trends and challenges, by end user markets.

Competitive landscape of CNF by market, volumes, key trends and growth. Potential for CNF to gain market share by market volume across all end user markets. Markets covered include Polymer composites, Automotive, Building & Construction, Packaging, Textiles, Biomedicine, Pharma, Healthcare, Sanitary and Hygiene Products, Paints & Coatings, Aerogels, Oil & Gas, Filtration, Cosmetics, Food Additives, Electronics, Batteries, Aerospace and 3D printing.

In-depth market assessment of opportunities for CNF including potential revenues, growth rates, pricing, most likely applications and market challenges.

In-depth analysis of market by applications including estimated market size, penetration and growth. Applications covered include: Polymer composite parts; Biodegradable and renewable nanocomposites; Automotive composites; Packaging films; Aerogels; Construction materials; Packaging fillers/additives; Paint and coatings additives; Deodorant sheets; Pharmaceutical additives; Renewable plastic parts/casings; Transparent films for electronics; Flexible and printed electronics; Batteries; Flexible and paper batteries; Filtration membranes.

In-depth key player profiles of 91 companies, including products, current capacities and plans for new capacities, production processes, prices per kg and commercial activities. Companies profiled in the report include Asahi Kasei, Chuetsu Pulp & Paper Daicel, Daiichi Kogyo, Daio Paper, GranBio Technologies, Nippon Paper, Oji Holdings, Sugino Machine, Seiko PMC and more.

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