



ENTER THE MAN-MADE CELLULOSIC FIBER MARKET WITH ANDRITZ

Full production solutions driving
sustainable fiber innovation

ANDRITZ

The complete value chain from one source

With a strong commitment to innovation, ANDRITZ delivers fully integrated man-made cellulosic fiber (MMCF) solutions covering the entire process, from raw material to finished fiber, ensuring high fiber quality, process stability, and scalable performance, while setting new standards in reliability and sustainability.

BENEFIT FROM OUR GLOBAL PRODUCTION SCALE

ANDRITZ combines proven technologies with decades of pulp industry expertise to ensure consistently high fiber quality across diverse applications. Optimized processes and robust design guarantee reliable, stable, and high-performance operation, even under demanding conditions.

A strong focus on reduced emissions and water consumption minimizes environmental impact and supports sustainability targets across the value chain. Global project execution, together with comprehensive lifecycle services, ensures long-term operational excellence and readiness for future-oriented, circular production concepts.

BENEFITS OF MMCF IN NONWOVENS

Lyocell fibers, produced from wood-based cellulose via a non-toxic, closed-loop solvent process, combine high performance with sustainability. They offer strong mechanical properties, even in 100% needlepunched fabrics, outperforming other cellulose-based alternatives in comparable structures.

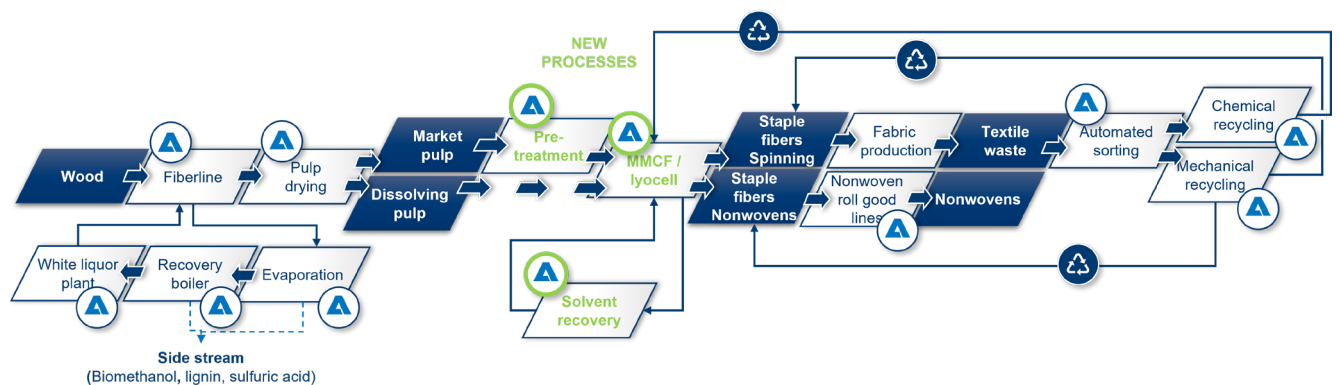
With rapid biodegradability (approx. 55 days), lyocell nonwovens clearly surpass oil-based fibers like PET. In addition, their compatibility with thermal bonding in blends enables product designs that combine sustainability with tailored performance.

BENEFITS OF MMCF IN TEXTILES

Thanks to renewable, responsibly sourced raw materials, customers benefit from solutions that help prevent deforestation when sourced from certified forestry schemes. Compared to synthetic fibers, these materials offer a significantly lower environmental footprint, supporting EU CO₂ reduction and sustainable textile goals, while delivering high performance in strength, breathability, and comfort for apparel and home textiles.

LYOCELL: THE SUSTAINABLE CHOICE

Lyocell combines renewable raw materials, optimized comfort, moisture management, and a reduced environmental footprint, making MMCF one of the most promising fiber segments for future textile and nonwoven applications.



Man-made cellulosic fiber process: a homestead for ANDRITZ



INTEGRATED SOLUTION

with upstream pulp mill or downstream nonwoven lines

SERVICE

Consultancy, feasibility studies, process audit, retrofit/de-bottlenecking, automatization & digitalization

RAW MATERIAL FLEXIBILITY

From proteins to various cellulosic sources such as pre-treated pulps, dissolving pulps, and recycled textiles, enable cost optimization and product differentiation

TAILOR-MADE PROCESS

Engaging with partners, customers for joint-development initiatives to design advanced solutions



COMPLETE LYOCCELL PLANTS

with 7,000 – 100,000 t/a capacity

NEXTGEN MMCF SOLUTION

Advanced ionic liquids solution to produce textile fibers

RESEARCH & DEVELOPMENT

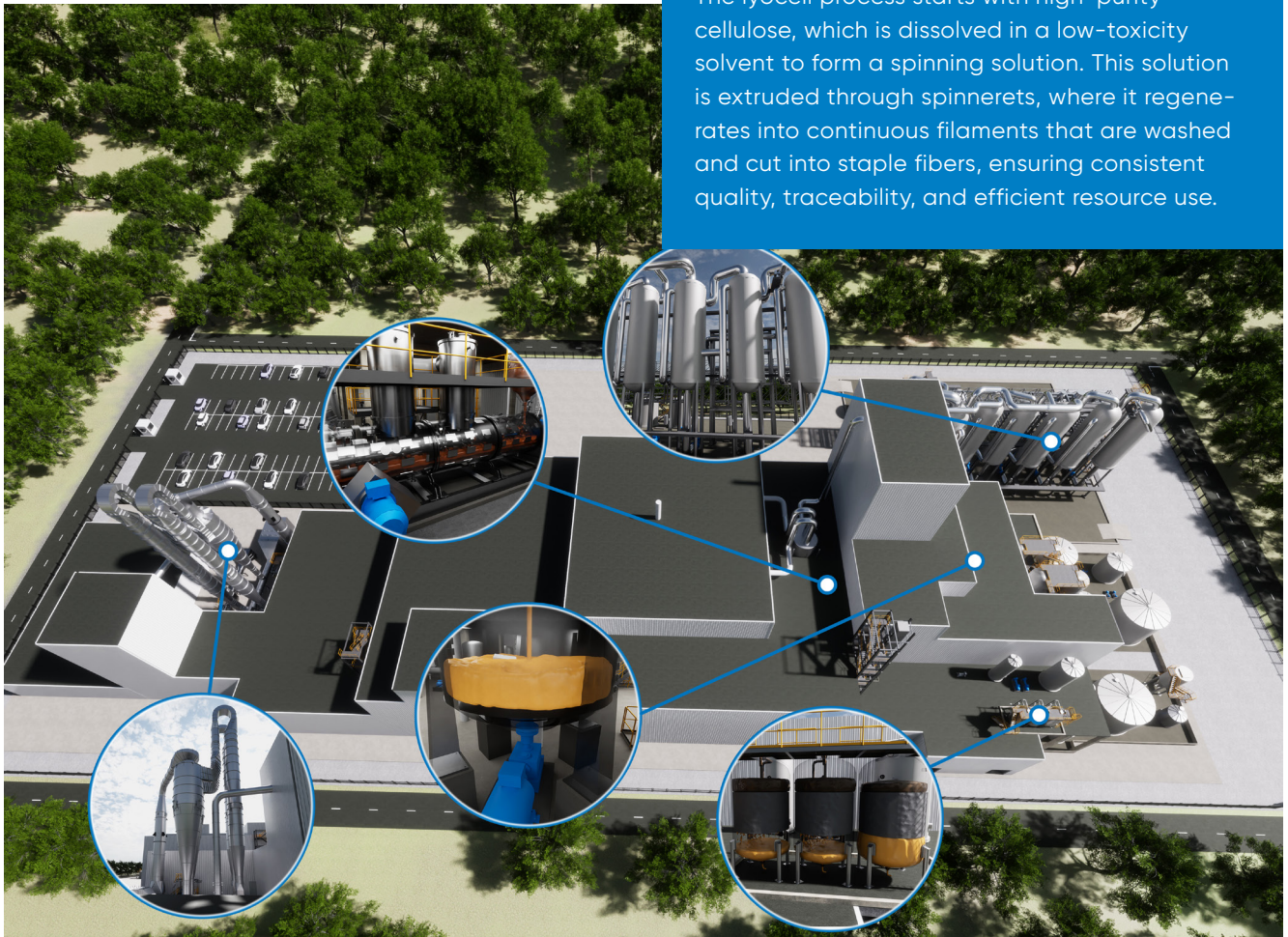
Several lab and pilot facilities and cooperation with leading universities

DIGITALIZATION

Increase of automation level to optimize labor costs as well as implementation of digital solutions

**THE PROCESS:
FROM WOOD PULP TO NEW FIBERS**

The lyocell process starts with high-purity cellulose, which is dissolved in a low-toxicity solvent to form a spinning solution. This solution is extruded through spinnerets, where it regenerates into continuous filaments that are washed and cut into staple fibers, ensuring consistent quality, traceability, and efficient resource use.



ANDRITZ MMCF plant



GET THE MOST OUT OF YOUR INVESTMENT

At ANDRITZ Nonwoven and Textile, we know that your business depends on satisfied customers and efficient processes. That's why we support you in every aspect of your nonwoven and textile production. Take advantage of technology that will let you produce consistent quality for decades to come. Benefit from the highly efficient use of energy and raw materials that our production provides. You can rely on our responsive service teams to protect your investment and optimize your processes. Experience how innovative approaches and digital services give you more control than ever before. With ANDRITZ, the leading supplier for the nonwoven and textile market, you get the most out of your investment.

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