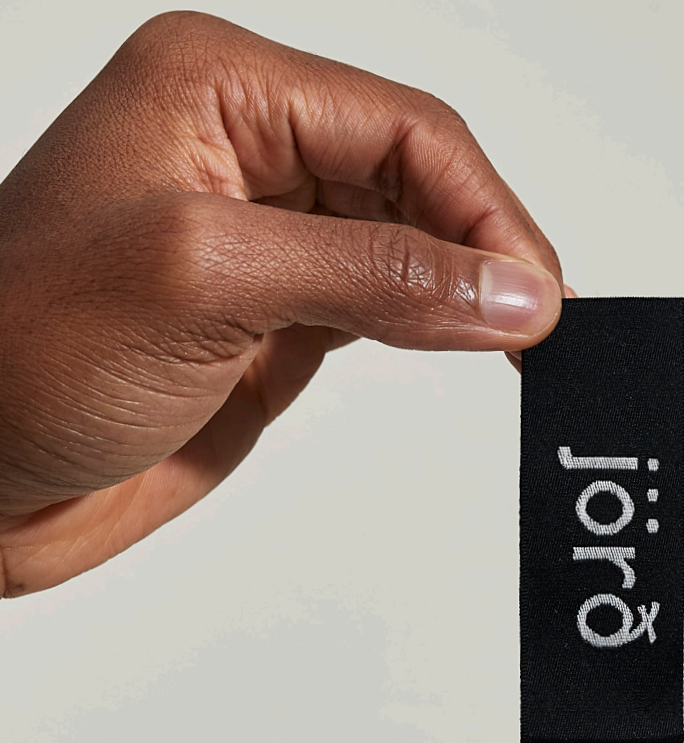


# Choosing **TENCEL™ Lyocell**

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NILÖRN

# Introduction to TENCEL™ Lyocell

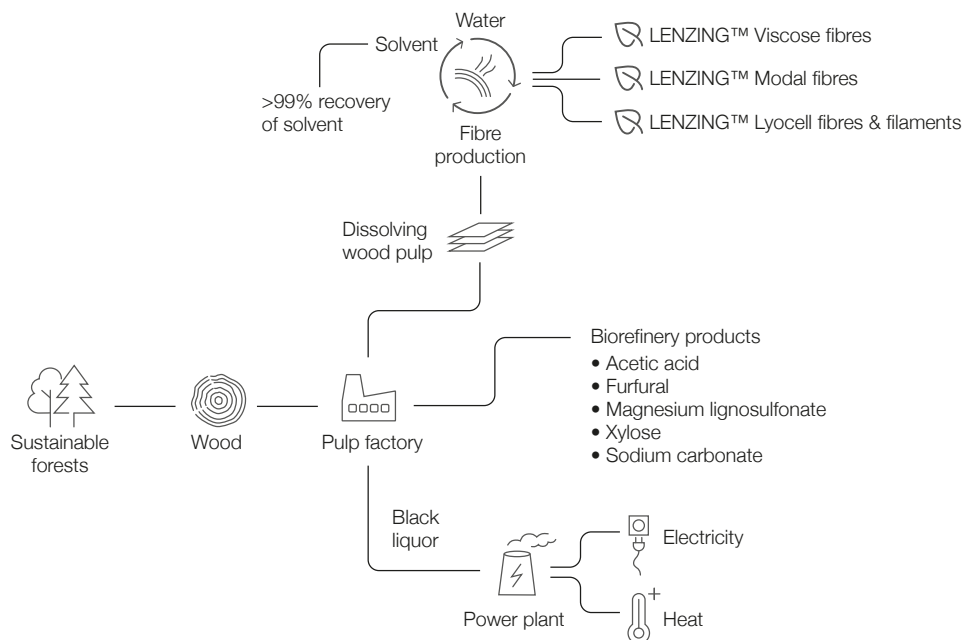
The raw material for TENCEL™ branded lyocell fibres is sustainably sourced wood. By choosing TENCEL™ fibres, consumers are guaranteed that the trees used come from controlled and certified sources. This means they come from responsibly managed forests with a replanting program that provides environmental, social and economic benefits.

## The production process

TENCEL™ Lyocell is produced using a closed-loop system, where up to 99% of the solvents and processed water are recovered and reused. Because of this system, it is a preferred alternative to generic wood-based fibres like viscose and acetate.

## Biorefinery: From wood to dissolving pulp

### Lenzing site



TENCEL™ Lyocell is a trademark of Lenzing AG.

## Properties and benefits

Thanks to its unique properties and environmental benefits, TENCEL™ Lyocell fibres are widely used in the textile industry. Here's why:

- The fibres are produced in a responsible and sustainable way
- It's soft and smooth to the touch
- All inputs and outputs are closely measured and monitored to ensure a minimal environmental footprint
- Water, solvents, and other inputs are carefully selected and then treated to mitigate harm at the output stage
- The producer, Lenzing, focuses on sustainable wood sourcing, includes certifications, responsible consumption and highly efficient resource use. They source wood and wood pulp from semi-natural forests and not from natural or ancient and endangered forests
- The wood fibres come from controlled and certified sources
- For every tree cut down, more trees are planted to replace them
- It's a plastic-free alternative, reducing the use of fossil-based polyester
- Compared to cotton fibre production, TENCEL™ Lyocell may require 10-20 times less water
- TENCEL™ Lyocell and blends of TENCEL™ Lyocell & cotton can be recycled back to new cellulose fibres in a chemical recycling process



### TENCEL™ Lyocell sustainability certifications

- Biodegradable/compostable (certified by TÜV AUSTRIA as biodegradable and compostable under industrial, home, soil and marine conditions)
- EU Ecolabel
- FSC™ and PEFC certified

### Nilörns product offer made of TENCEL™ Lyocell

- 50/50 - TENCEL™ Lyocell/cotton blend: Cotton warp and TENCEL™ Lyocell weft, needle loom - fully woven label
- 50/50 - TENCEL™ Lyocell/cotton blend: Cotton warp and TENCEL™ Lyocell weft, needle loom - printed label (screen print)
- 100 - Printed label using 100% TENCEL™ Lyocell (screen print or rotary print)
- String or ribbon for hang tag using 100% TENCEL™ Lyocell



## Some frequently asked questions

### **Q - Why are TENCEL™ Lyocell fibres a good alternative to polyester?**

A - TENCEL™ Lyocell ensures that raw materials come from responsibly managed forests, planting new trees to replace the ones cut down, while polyester is a fossil- based non-renewable plastic material. The production process is a closed-loop system minimising the risk of chemicals being released into the environment. TENCEL™ Lyocell is recyclable and biodegradable (under conditions specified by TÜV AUSTRIA).

### **Q - Where are trims made of TENCEL™ Lyocell best suited?**

A - Recommended for use in biobased garments, as a complement to the primary fabric used.

### **Q - How do I take care of TENCEL™ Lyocell?**

A - TENCEL™ Lyocell has many similarities to cotton and therefore the recommended washing temperature

should not exceed 40°C. Tests show that washing at a lower temperature ensures the quality is maintained and the risk of shrinkage is minimised.

### **Q - What is EU Ecolabel?**

A - The EU Ecolabel is a label of environmental excellence awarded to products and services meeting high environmental standards throughout their life cycle from raw material extraction to production, distribution and disposal. The EU Ecolabel promotes the circular economy by encouraging producers to generate less waste and CO2 during the manufacturing process. The EU Ecolabel criteria also encourages companies to develop durable, easy to repair and recycle products.