



LENZING
EcoVero

TENCEL™ VE LENZING™ ECOVERO™

**Sustainable and
eco-friendly
fibers in harmony
with nature**

ABOUT US

Future-conscious and sustainable production processes

As Karacasu Tekstil, we prioritize sustainability by combining modern and innovative yarn production using Open-End, Ring Spinning, and Twisting technologies with environmentally friendly production processes.

Strong production capacity

Our Open-End facility operates with over 5,200 rotors, producing 15,000 tons of yarn annually. In our Ring Spinning facility, we utilize more than 20,000 spindles to produce 6,000 tons of yarn each year. Additionally, our Twisting facility, equipped with 3,000 spindles, achieves an annual production capacity of 2,000 tons. We offer tailored solutions to meet diverse needs, producing compact, siro, slub, and lycra yarns.

Sustainable partnerships

We lead in sustainable yarn production by collaborating with globally recognized brands such as TENCEL™, LENZING™ ECOVERO™, Naia™, Circulose®, Seaqual Initiative, and Polylana®. These partnerships guide our efforts toward a greener planet.

Efficient R&D center activities

As a licensed R&D center certified by the Ministry of Industry and Technology, we conduct research on innovative machine design, production error rectification, development of sustainable raw materials, and improving yarn performance.

Environmentally respectful approach

We adopt energy efficiency and sustainability as core principles. By installing solar panels on the roofs of our Open-End and Ring Spinning facilities,



**WE ARE TAKING
SIGNIFICANT STEPS
IN DEVELOPING
SUSTAINABLE PRODUCTS
THROUGH PARTNERSHIP
AGREEMENTS WITH
GLOBAL COMPANIES.**

we meet 50% of our energy consumption needs through renewable energy sources.

Strong human resources

At Karacasu Tekstil, we prioritize the continuous development and motivation of our workforce. We create a supportive environment by offering regular training programs, talent management initiatives, and fostering teamwork across all departments, from production to R&D.

Functional and diverse product portfolio

Our portfolio includes over 38 types of fibers (natural, cellulosic, synthetic, animal-based, recycled, etc.), enabling us to produce customized blended yarns tailored to our customers' needs. Additionally, we offer multi-ply versions of these blended yarns through our Twisting facilities.



AT A GLANCE: LENZING GROUP

Traceable and transparent solutions in the supply chain

Lenzing Group is an international company located in Lenzing, Austria, with nine production facilities in more than 10 countries. The company produces wood-based viscose fibers, modal fibers, lyocell fibers, and filament yarns used in the textile and nonwoven industries.

A sustainable future

Believing that complex global challenges require a collaborative approach, the company aims to provide additional benefits to people and the environment by working together with its partners.

Combating climate change

With its 2050 vision set as "Making zero-carbon future a reality," Lenzing Group takes responsibility for future generations through its strategic commitment to achieving climate neutrality by 2050.

An economy with a future

Committed to establishing the circular economy as a concept for a sustainable future in the industry and thus protecting the planet, Lenzing Group transforms discarded garments into new raw material sources for high-quality fibers with its environmentally conscious technologies.

Traceable and transparent solutions

Believing that transparency is the first step toward a sustainable textile industry, the company pursues various approaches to create a more sustainable and transparent supply chain. The combination of these approaches ensures a high level of transparency and verifies the origin of fibers throughout the supply chain up to the finished garment.



TENCEL™ LYOCELL FIBER

Environmentally conscious closed-loop production process

TENCEL™ LYOCELL FIBERS, DERIVED FROM RENEWABLE WOOD SOURCES, ARE HARVESTED FROM CERTIFIED AND CONTROLLED ORIGINS.

TENCEL™ Lyocell fibers, produced through an environmentally friendly closed-loop production process, offer long-lasting comfort thanks to their qualities such as quality, performance, and versatility.

PRODUCTION

Cellulosic-based

TENCEL™ Lyocell fibers, derived from renewable wood sources, are harvested from certified and controlled origins in strict compliance with the "Lenzing Wood and Pulp Policy."

Sustainable production

TENCEL™ Lyocell fibers are produced using an environmentally friendly closed-loop production process that transforms wood pulp into cellulosic fibers with high resource efficiency and low ecological impact. This solvent-spinning process recycles process water and reuses the solvent with a recovery rate of over 99%. Recognized by the European Commission with the European Environmental Award in the "Sustainable Development Technology Award" category, TENCEL™ Lyocell fibers are certified as Biobased by the U.S. Department of Agriculture

(USDA). Additionally, all Lenzing fiber production facilities operate in compliance with the Environmental Management and Occupational Health and Safety System (ISO14001, ISO45001).

TECHNOLOGY

REFIBRA™ Technology

The pioneering REFIBRA™ technology combines wood pulp sourced from sustainably managed forests with scraps from upcycled cotton garment production to create pure new TENCEL™ Lyocell fibers for use in fabrics and garments.

Unlike recycled cotton, TENCEL™ fibers made with REFIBRA™ technology experience no loss in quality or performance.

Micro Technology

TENCEL™ Lyocell fibers with micro technology are extra-fine and lightweight cellulosic fibers derived from sustainable wood sources. Fabrics containing TENCEL™ Lyocell fibers offer effective moisture absorption for natural skin comfort thanks to their micro technology, while providing softness and lightness for long-lasting natural comfort.

KEY FEATURES

Biodegradable^(*)

TENCEL™ Lyocell fibers are certified as biodegradable and compostable under industrial, home, soil, freshwater, and marine conditions, and can be fully recycled.

A setting that inhibits bacterial growth

TENCEL™ Lyocell fibers, through moisture management, provide a less favorable environment for bacterial growth on the fiber surface compared to cotton and polyester.

Moisture management

The structure of TENCEL™ Lyocell fibers allows for the absorption and release of moisture. These effective moisture control properties in the final textile product help support a drier microclimate on the skin, enhancing the user's thermal comfort.

Different blending options

Known for their natural comfort, TENCEL™ Lyocell fibers are versatile and can be blended with a wide range of textile fibers such as cotton, polyester, acrylic, wool, and silk to enhance the aesthetics, performance, and properties of fabrics.

High strength

TENCEL™ Lyocell fibers are versatile and stand out with their high-strength profile among cellulosic fibers.



(*) LENZING™ Lyocell and Modal standard fibers have been certified by TÜV Austria as biodegradable in soil, freshwater, and marine environments, and compostable under home and industrial conditions.

TENCEL™ LYOCELL FIBER

Feel good and comfortable with a natural touch

Carbon neutral

In line with Lenzing's commitment to the "Science Based Targets" initiative and supporting the "UN Sustainable Development Goals," zero-carbon TENCEL™ fibers have been certified as carbon neutral by third parties for their carbon emissions reduction.

Supply chain transparency

TENCEL™ fibers, equipped with fiber identification technology based on a special production process, can be verified as original in the value chain through Lenzing tests. This identification method supports supply chain transparency and traceability while ensuring the authenticity of TENCEL™ fibers.

Intense and vibrant colors

The effective dye uptake of TENCEL™ Lyocell fibers allows dyes to deeply penetrate the fiber structure, achieving impressive color brightness. The combination of efficient dye absorption and the smooth fiber surface makes the color of TENCEL™ Lyocell fibers appear brighter and noticeably more intense compared to cotton fabrics.

Smoothness

TENCEL™ Lyocell fibers naturally have a smooth touch. Under an electron microscope, TENCEL™ Lyocell fibers exhibit a smooth surface area that allows fabrics to glide gently over the skin.

Gentle on the skin

Thanks to the smooth fiber surface of TENCEL™ Lyocell, fabrics provide a soft feel and long-lasting comfort for sensitive skin.

BLENDING OPTIONS

TENCEL™ Lyocell fiber is used to produce tailor-made yarns according to our customers' demands, either at 100% or blended with fibers such as Combed, Carded, Cotton, Organic Cotton, Better Cotton, Bamboo, Viscose, Silk, Wool, Cashmere, Polyester, FR Polyester, Recycled Polyester, Cationic Polyester, Seaqual Initiative, Polyamide, Agraloop™, Poly lana®, Circulose®, Acrylic (Relax), Acrylic Anrelax, Acrylic HB, Mod Acrylic, Naia™, Linen, and Hemp. Additionally, we can produce multi-ply versions of these blended yarns in our Twisting facilities.

With our customer-focused and flexible production approach, we offer tailored solutions for every industry using more than 38 types of fibers. We produce our TENCEL™ Lyocell fiber blended yarns within the following ranges for various sectors:

- Circular knitting sector: Ne 12/1–40/1
- Weaving sector: Ne 3/1–40/1
- Flat knitting sector: Ne 3/2–40/2

TENCEL™ MODAL FIBER

A new standard of natural comfort and sustainability

TENCEL™ MODAL FIBERS ARE PRODUCED FROM RENEWABLE WOOD SOURCES, PRIMARILY OBTAINED FROM SUSTAINABLE FORESTS IN AUSTRIA AND NEIGHBORING COUNTRIES.

PRODUCTION

The sound of nature

At the Lenzing facility in Austria, fully integrated pulp and fiber production enables the environmentally conscious production of TENCEL™ Modal fibers. In Lenzing, renewable energy is used in the pulp factory, and remaining components are recovered as by-products to conserve resources for future generations. Additionally, numerous Lenzing innovations have been integrated into the production of TENCEL™ Modal fibers to make the process more environmentally friendly.

TECHNOLOGY

Eco Clean Technology

TENCEL™ Modal fibers with Eco Clean technology are produced in an integrated manufacturing facility with fully chlorine-free bleaching technology, meeting high environmental standards. These fibers offer the most environmentally friendly option among all modal fibers currently available.

Eco Color Technology

The environmentally conscious Eco Color Technology offers long-lasting color durability and design flexibility for textile products. TENCEL™ Modal fibers produced with Eco Color technology are certified with the EU Ecolabel (license no. AT/016/001), an environmental excellence label awarded to products that meet high environmental standards throughout their life cycle.

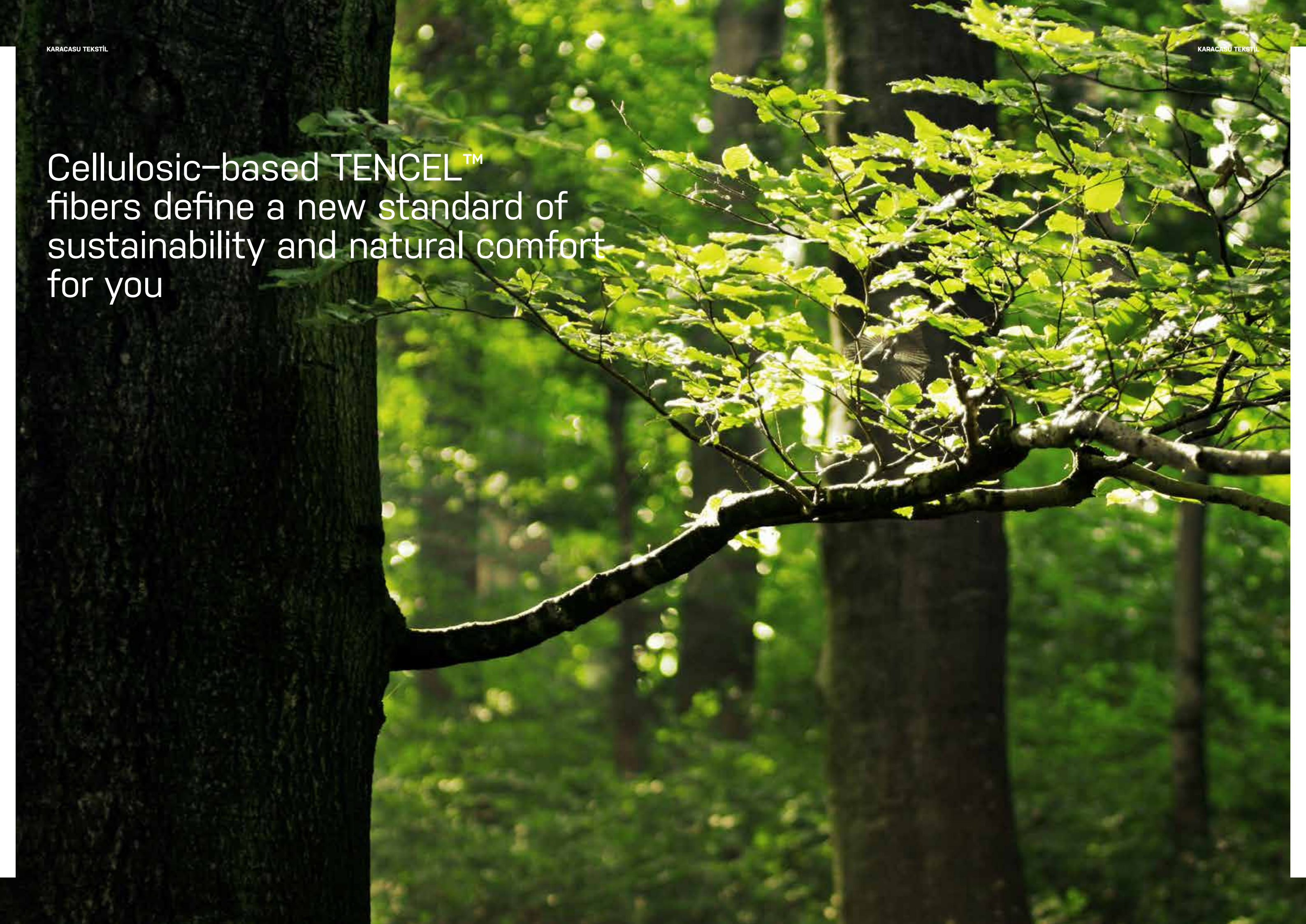
Micro Technology

TENCEL™ Modal fibers with Micro Technology are extra-fine and lightweight cellulosic fibers derived from sustainable wood sources. Fabrics containing TENCEL™ Modal fibers provide effective moisture absorption for natural skin comfort thanks to their micro technology, while offering softness and lightness for long-lasting natural comfort.

Eco Soft Technology

TENCEL™ Modal fibers produced with Eco Soft technology are made through a process that uses an integrated pulp-to-fiber production system with high recovery rates of process components and very low emissions to the air. Utilizing excess renewable energy primarily sourced from the pulp factory, these fibers are certified with the EU Ecolabel (license no. AT/016/001), an environmental excellence label awarded to products that meet high environmental standards throughout their life cycle.

Cellulosic-based TENCEL™
fibers define a new standard of
sustainability and natural comfort
for you



TENCEL™ MODAL FIBER

Indigo Color Technology

Compared to traditional indigo dyeing, Indigo Color technology provides significant savings in water, chemicals, and electricity for TENCEL™ Modal fibers, while also producing less wastewater and consuming less heat energy. TENCEL™ Modal fibers with this technology are less likely to fade after repeated wear in daily use, and the color does not transfer to other surfaces even when the garments are wet. TENCEL™ Modal fibers are certified with the EU Ecolabel (license no. AT/016/001), an environmental excellence label awarded to products that meet high environmental standards throughout their life cycle.

KEY FEATURES

Supply chain transparency

TENCEL™ fibers, equipped with fiber identification technology based on a special production process, can be verified as original in the value chain through Lenzing tests. This identification method supports transparency and traceability in the supply chain while ensuring the authenticity of TENCEL™ fibers.

Long-lasting softness

TENCEL™ Modal fibers, with their smooth surface and high elasticity, ensure that the fabric has a naturally soft quality. Published studies using the Tactile Sensation Analyzer (TSA) and Fabric Touch Tester (FTT) as measurement devices confirm the softness of fabrics made from TENCEL™ Lyocell and Modal fibers.



(*) LENZING™ Lyocell and Modal standard fibers have been certified by TUV Austria as biodegradable in soil, freshwater and marine environments, and compostable under home and industrial conditions.

Supplier collaboration

Lenzing, through zero-carbon TENCEL™ Modal fibers, collaborates with raw material suppliers to contribute to the reduction of the carbon footprint in the supply chain while making Lenzing's carbon neutrality goal collaborative.

Color retention

The color pigments embedded in TENCEL™ Modal fibers maintain long-lasting color vibrancy, offering better color retention than traditionally dyed fibers and are less likely to fade even after repeated washes.

Biodegradable^(*)

TENCEL™ Modal fibers are certified as biodegradable and compostable under industrial, home, soil, freshwater, and marine conditions, and can be fully recycled.

Moisture management

The structure of TENCEL™ Modal fibers allows for the absorption and release of moisture. These effective moisture control properties in the final textile product help support a drier microclimate on the skin, enhancing the user's thermal comfort.



TENCEL™ MODAL FIBER

Carbon neutral

In line with Lenzing's commitment to the "Science Based Targets" initiative and supporting the "UN Sustainable Development Goals," zero-carbon TENCEL™ fibers have been certified as carbon neutral by third parties for their carbon emissions reduction.

BLENDING OPTIONS

TENCEL™ Modal fiber is used to produce tailor-made yarns according to our customers' demands, either at 100% or blended with fibers such as Combed, Carded, Cotton, Organic Cotton, Better Cotton, Bamboo, Viscose, Silk, Wool, Cashmere, Polyester, FR Polyester, Recycled Polyester, Cationic Polyester, Seaqual Initiative, Polyamide, Agraloop™, Poly lana®, Circulose®, Acrylic (Relax), Acrylic Anrelax, Acrylic HB, Mod Acrylic, Naia™, Linen, and Hemp. Additionally, we can produce multi-ply versions of these blended yarns in our Twisting facilities.

With our customer-focused and flexible production approach, we offer tailored solutions for every industry using more than 38 types of fibers. We produce our TENCEL™ Modal fiber blended yarns within the following ranges for various sectors:

- Circular knitting sector: Ne 12/1–40/1
- Weaving sector: Ne 3/1–40/1
- Flat knitting sector: Ne 3/2–40/2

LENZING™ ECOVERO™

Sustainable fashion with environmentally friendly viscose fibers

LENZING™ ECOVERO™ FIBERS HELP COMBAT CLIMATE CHANGE THROUGH THEIR PRODUCTION PROCESS, WHICH RESULTS IN UP TO 50% LOWER CO₂ EMISSIONS.

Through environmentally conscious production practices, LENZING™ ECOVERO™ fibers have been certified by Higg MSI for having a significantly lower environmental impact than generic viscose, leaving air and water cleaner. Additionally, LENZING™ ECOVERO™ fibers are certified with the EU Ecolabel (license no. AT/016/001), an environmental excellence label awarded to products that meet high environmental standards throughout their life cycle.

PRODUCTION

Low water impact

LENZING™ ECOVERO™ fibers, produced with up to 50% less water, not only provide high efficiency in usage but also clean the water before returning it to nature.

Low CO₂ emissions

LENZING™ ECOVERO™ fibers help combat climate change through their production process, which results in up to 50% lower CO₂ emissions in the air.

Sustainable wood sources

The natural and renewable raw materials of wood and paper pulp are sourced from certified and controlled origins in sustainably managed forests. The nonprofit environmental organization Canopy ranks Lenzing among the world's best viscose producers for its sustainable wood and paper pulp sourcing practices.

Environmentally conscious production

LENZING™ ECOVERO™ fibers, sourced from certified renewable wood sources through an environmentally conscious production process that meets high environmental standards, contribute to a cleaner environment and support a sustainable lifestyle.

KEY FEATURES

Biodegradable

LENZING™ ECOVERO™ fibers are certified as biodegradable and compostable under industrial, home, soil, freshwater, and marine conditions, and can be fully recycled.

Versatility

LENZING™ ECOVERO™ fibers are also available in a black version to enhance versatility in product creation.

Transparency

Lenzing's fiber identification system ensures that LENZING™ ECOVERO™ viscose fibers can be reliably identified in the final product, even after long textile processing and transformation steps throughout the value chain.

LENZING™ ECOVERO™

**WITH OUR CUSTOMER-
FOCUSED AND FLEXIBLE
PRODUCTION APPROACH,
WE OFFER TAILORED
SOLUTIONS FOR EVERY
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FIBERS.**

BLENDING OPTIONS

LENZING™ ECOVERO™ fiber is used to produce tailor-made yarns according to our customers' demands, either at 100% or blended with fibers such as Combed, Carded, Cotton, Organic Cotton, Better Cotton, Bamboo, Viscose, Silk, Wool, Cashmere, Polyester, FR Polyester, Recycled Polyester, Cationic Polyester, Seaqual Initiative, Polyamide, Agraloop™, Polyana®, Circulose®, Acrylic (Relax), Acrylic Anrelax, Acrylic HB, Mod Acrylic, Naia™, Linen, and Hemp. Additionally, we can produce multi-ply versions of these blended yarns in our Twisting facilities.

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- Weaving sector: Ne 3/1-40/1
- Flat knitting sector: Ne 3/2-40/2

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A management approach investing in its region and country

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