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Lenzing unveils the new potential of TENCEL™ Lyocell fibers as alternative material for stretch fabrics

- Lenzing's latest innovative processing technique for wood-based TENCEL™ Lyocell fibers is tailored for stretch fabrics with enhanced recovery properties
- Stretch fabrics using TENCEL™ Lyocell fibers are easy to care for, offering enhanced comfort and endless design possibilities for lightweight apparel
- Lenzing extends comprehensive fabric development support to assist mill partners in attaining the "BS EN 14704-1" standard for stretch fabrics made using TENCEL™ Lyocell fibers

Lenzing – Lenzing Group, a leading global producer of wood-based specialty fibers, announces a new processing technique of TENCEL™ branded lyocell fibers tailored to create stretch fabrics that enhances comfort of the wearer. This solution offers a fossil-free alternative that delivers exceptional stretch and recovery properties while adhering to responsible production methods.

Fabric innovation features enhanced stretch, comfort and easy-to-care properties

Lenzing's new processing technique involves re-engineering woven fabric composed of TENCEL™ Lyocell fibers coupled with a fabric pre-treatment. During the wet process, TENCEL™ Lyocell fibers undergo significant swelling in diameter, leading to increased yarn crimps in the widthwise direction. This translates into a fabric that can stretch with enhanced recovery¹ and does not shrink or wrinkle easily, maintaining a smooth appearance even after home laundering².

"Our technical innovation unlocks the inherent potential of TENCEL™ Lyocell fibers for producing stretch fabrics that move in harmony with the body. This enhances comfort with easy-to-care properties, making it ideal for lightweight apparel," said **Rex Mok, Vice President of Fiber Technical Marketing and Development at**

¹ Data from SGS Report No SL12100263549701TX. Material: fabrics made of 100% TENCEL™ Lyocell Ne30 x Ne30 / 98*74.

² Data from SGS Report No SL12200348946801TX: Material: fabrics made of 100% LENZING™ Lyocell Ne50 x Ne50 / 116x75.

Lenzing. “We are committed to fostering responsible production practices³ through innovations in the textile sector and are delighted to share this latest innovative development with our fabric mill partners. Together, we are taking a significant stride towards reduced usage of fossil-based materials within the textile value chain while ensuring comfort and material performance.”

Empowering partners in their journey towards a more sustainable future

To take a step further, Lenzing extends its comprehensive support at the fabric development level to mill partners. The stretch fabrics made using TENCEL™ Lyocell fibers meet the international standard for fabric stretch and recovery properties⁴. The collaboration with Lenzing will enable mills and brands to unleash unlimited design possibilities while addressing the growing consumer demand for comfortable apparel produced responsibly, particularly in sectors such as sportswear, athleisure garments, loungewear, and home textiles.

A fossil-free alternative to conventional synthetic materials, TENCEL™ Lyocell fibers used in the stretch fabrics are derived from controlled or certified wood sources and made from a resource-saving closed-loop production process⁵. Additionally, the fibers are identifiable in end products and traceable back to their sources, ensuring greater accountability and transparency in the supply chain.

Images related to the announcement can be downloaded [here](#).

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³ TENCEL™ Lyocell and Modal fibers are made with at least 50% less carbon emissions and water consumption, compared to generic (unbranded) lyocell and modal. The results were calculated according to LCA standards (ISO 14040/44) and are made available via the Higg MSI by Sustainable Apparel Coalition (Version 3.7).

⁴ The “BS EN 14704-1” standard published by the British Standards Institution determines the elasticity of fabrics.

⁵ Savings consider solvent recovery.

About TENCEL™

TENCEL™ is the flagship textile fiber brand under the Lenzing Group. Since 1992, the TENCEL™ brand has been driving the evolution of fiber solutions for apparels and home textiles with multiple innovations and resource-efficient production processes. Product brands under TENCEL™ include TENCEL™ Active, TENCEL™ Denim, TENCEL™ Home, TENCEL™ Intimate, TENCEL™ LUXE and TENCEL™ for Footwear.

Derived from controlled or certified wood sources, TENCEL™ branded modal and lyocell fibers are naturally soft, smooth to touch and can support rich colors in fabrics. With effective moisture control, the fibers also support a natural dry feeling. Both TENCEL™ Lyocell and Modal fibers are highly versatile and can be combined with a wide range of textile fibers to offer an almost endless variety of product designs and functions.

TENCEL™ Lyocell and Modal fibers can break down and compost at the end of their life cycle. The fibers are also certified with the EU Ecolabel for environmental excellence, recognizing the high environmental standards throughout their entire life cycle.

To learn more about the TENCEL™ brand, please visit <https://www.tencel.com/>. For more details around the sustainability features, performance, as well as the technology and production processes behind TENCEL™ branded fibers, please visit <https://www.tencel.com/claims>.

About the Lenzing Group

The Lenzing Group stands for ecologically responsible production of specialty fibers made from the renewable raw material wood. As an innovation leader, Lenzing is a partner of global textile and nonwoven manufacturers and drives many new technological developments.

The Lenzing Group's high-quality fibers form the basis for a variety of textile applications ranging from elegant ladies clothing to versatile denims and high-performance sports clothing. Due to their consistent high quality, their biodegradability and compostability Lenzing fibers are also highly suitable for hygiene products and agricultural applications.

The business model of the Lenzing Group goes far beyond that of a traditional fiber producer. Together with its customers and partners, Lenzing develops innovative products along the value chain, creating added value for consumers. The Lenzing Group strives for the efficient utilization and processing of all raw materials and offers solutions to help redirect the textile sector towards a closed-loop economy. In order to reduce the speed of global warming and to accomplish the targets of the Paris Climate Agreement and the "Green Deal" of the EU Commission, Lenzing has a clear vision: namely to make a zero-carbon future come true.

Key Facts & Figures Lenzing Group 2022

Revenue: EUR 2.57 bn

Nominal capacity: 1,145,000 tonnes

Number of employees (headcount): 8,301

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