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Lenzing introduces new resource-efficient dyeing approach for TENCEL™ Lyocell fibers

- The new approach reduces water and energy usage in creating similar wash-down aesthetics, previously only achievable through a resource-intensive denim dyeing and bleaching process
- Ideal for use in yarns and fabrics made of TENCEL™ Lyocell fiber or TENCEL™ Lyocell fiber with REFIBRA™ technology, the approach helps elevate the versatility of fabrics and unleashes design possibilities in ready-to-wear and knit apparel
- Easily compatible with existing machinery in fabric mills, the new approach can enhance energy efficiency in the production process, enabling greater cost-savings and sustainability in the supply chain

Lenzing – Lenzing Group, a leading global producer of wood-based specialty fibers, has introduced a new approach that covers yarn pre-treatment and knitting technique to achieve aesthetics that resemble the wash-down effects of traditional dyeing in ready-to-wear and knit garments. To address the pollution caused by dyeing and finishing in the textile industry, the new approach will significantly reduce environmental impact and is ideal for use on pre-treated fabrics and yarns made with TENCEL™ Lyocell fibers. The approach also complements the wet-processing and production facilities of fabric mills, bringing added benefits for value chain partners.

One-step dyeing process significantly reduces water and energy consumption

In traditional dyeing, multiple washes using a significant amount of water, energy, dyes and chemicals may be required to achieve a designated shade of color. With the new approach, only one round of dyeing is required, reducing water, energy and chemical usage by up to 50%, 40% and 90% respectively¹.

“As consumers become more conscious of the environmental footprint of their purchases, designers and manufacturers are seeking innovative ways to ensure that the materials and production processes deployed have a low environmental impact, while expanding design possibilities,” said **Rex Mok, Vice President of Fiber Technical Marketing and Development at Lenzing**. “Our new approach can create wash-down aesthetics or vintage looks on any knit fabric without water-intensive bleaching processes. By overcoming the limitations of traditional dyeing, our new approach is a resource-efficient alternative that helps translate into greater

¹ [ECOFAST™ Pure Sustainable Textile Treatment Application Manual, DOW, 2022](#)

sustainability and more competitive operational costs for fabric mills. We will continue to work with mill partners to drive wider adoption of the new approach and explore new applications within the textile value chain.”

Unleash unlimited design possibilities in knit apparel and denim-looking garments

With the new approach’s direct application to TENCEL™ Lyocell fibers or TENCEL™ Lyocell with REFIBRA™ technology, different shades of color, wash-down or fade-out effects can be customized. This makes it ideal to produce ready-to-wear, knit apparel and denim-looking garments in various color shades.

Enhance production efficiency and increase cost-savings for value chain partners

Existing regular, organic, or natural dyes used by yarn makers and fabric mills are compatible with the new approach. As yarn and fabric processed with the new approach do not leave dye residue on machines, the same machinery can be used continuously for the production of fabrics or garments of different colors. With machine down-time being minimized when changing color lots, production delays will be shortened, allowing yarn makers and fabric mills to save costs while enhancing production efficiency and sustainability.

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

For more information please contact:

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About TENCEL™

TENCEL™ is the flagship brand under The Lenzing Group that covers textile specialty product fiber offerings. Since 1992, the TENCEL™ brand has been driving the evolution of fiber solutions for the apparel and home textile segments through several industry-first innovations and environmentally responsible production processes. Product brands under TENCEL™ include TENCEL™ Active, TENCEL™ Denim, TENCEL™ Home, TENCEL™ Intimate, TENCEL™ Luxe and TENCEL™ for Footwear.

Featuring botanic origin and biodegradable quality, TENCEL™ branded modal and lyocell fibers are also gentle on skin with smooth, long-lasting softness, color vibrancy and color retention features. TENCEL™ Lyocell fibers are versatile and can be combined with a wide range of textile fibers to enhance the aesthetics and functionality of fabrics. Through moisture management, TENCEL™ Lyocell fibers can also absorb moisture efficiently. Offering endless design possibilities, TENCEL™ Modal fibers can be blended with other fibers and processed using conventional machinery, significantly improving the softness and comfort of fabrics.

Fibers and filaments used under the TENCEL™ brand are derived from certified and controlled sources following the stringent guidelines of the Lenzing Wood and Pulp Policy. They are produced via environmentally responsible production processes and are compostable and biodegradable, thus can fully revert back to nature. They are designated by the USDA (U.S. Department of Agriculture) BioPreferred® Program. TENCEL™ Luxe is registered by The Vegan Society.

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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