Lenzing REFIBRA™ Technology ups the game of sustainability with up to 30% in recycled raw material composition to enable more eco-friendly apparel and home textile applications

- TENCEL™ Lyocell fibers with REFIBRA™ Technology can now feature up to 30% of pulp made from upcycled cotton scraps collected from garment manufacturing process.
- Lenzing's family of TENCEL™ Lyocell fibers with REFIBRA™ Technology can now help to provide even more sustainable fiber options for knits, denim, towels and bed linen.

Lenzing Group (Lenzing) today announced a new milestone for its pioneering REFIBRA™ technology with an increase of up to 30% in recycled raw materials usage to further drive circular economy in the textile segment. The new offering is now available in the family of TENCEL™ Lyocell fibers with low fibrillation properties.

Produced in eco-responsible closed-loop production process, the new fibers are 100% biobased, and are produced of wood pulp from sustainably managed forests and an increase of up to 30% of pulp made from upcycled cotton scraps collected from garment manufacturing process. In addition to having low fibrillation and moisture management properties, the fibers also feature enhanced breathability, along with silky smoothness and strength. With the new fiber type, the portfolio of TENCEL™ Lyocell fibers with REFIBRA™ Technology will be expanded to become the ecologically responsible alternative for knitwear, lingerie and towels, in addition to current applications in denim, athleisure wear, apparel and home textiles.

"Over the years, we have witnessed a rise in the global demand for more sustainable materials among fashion and home product brands and consumers. Through raising recycled raw material usage to up to 30% in our pioneering REFIBRA™ Technology, we are not only addressing this inevitable trend, but also providing more nature-friendly fiber offerings to brands and consumers as a testament to our commitment to protecting the environment. The higher composition of upcycled cotton in the production of our fibers powered by REFIBRA™ technology gives cotton scraps a second chance and allow apparel or home textile products to be more sustainable. Coupled with a new identification system that allows fibers powered by REFIBRA™ technology to be identified in clothing and textile products, we can provide full transparency of the supply chain for brands and consumers, giving them a seal of confidence that the products are made of sustainable fibers. Moving forward, we will continue to up the game for the innovation of sustainable fibers and pave the way for circular economy in the textile industry ecosystem," said Florian Heubrandner, Vice President of Global Business Management Textiles of Lenzing.

With low fibrillation properties, the new fibers are proven to remain smooth and gentle on skin after repeated wash. Like other TENCEL™ Lyocell fibers with REFIBRA™ Technology, the fibers divert tons of cotton scraps from entering landfills or incineration by blending up to 30% of pulp made from upcycled cotton scraps collected from garment manufacturing process. The biobased fibers are also produced with high resource efficiency and low environmental impact, reusing water and solvent at a recovery rate of more than 99.5 %.

Moreover, with an innovative special identification technology designed to confirm fiber origin, TENCEL™ Lyocell fibers with REFIBRA™ Technology are identifiable in yarns, fabrics and final garments. This does not only improve supply chain transparency, but also gives fashion brands a seal of confidence that the fibers of their apparel or home textile products are sustainably sourced and produced.

Please refer to the Appendix for the list of brands and mills partner which use fibers enabled by REFIBRA™ Technology. More information about TENCEL™ Lyocell fibers with REFIBRA™ Technology can be found here. Images related to the announcement can be downloaded from here.

About TENCEL™

TENCEL™ is the textile specialty brand under The Lenzing Group that covers textile specialty product fiber offerings for apparel and home. The TENCEL™ product brand portfolio defines a new evolutionary step in terms of sustainability, functional benefits, natural comfort and caters for distinctive everyday usage or application. Product brands under TENCEL™ includes TENCEL™ Active, TENCEL™ Denim, TENCEL™ Home, TENCEL™ Intimate, TENCEL™ Luxe and TENCEL™ for Footwear.

Featuring botanic origin and biodegradable quality, TENCEL™ Modal and TENCEL™ Lyocell fibers can enhance breathability of fabrics and have minimal static charge when used in fabrics. Fabrics made of TENCEL™ 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. Exhibiting high flexibility, TENCEL™ Modal fibers enhance textiles with a naturally soft quality. 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 used under the TENCEL™ brand are derived from certified and controlled sources following the stringent guidelines of the Lenzing Wood and Pulp Policy. Namely TENCEL™ Modal and TENCEL™ Lyocell fibers, both cellulosic fibers are produced via environmentally responsible production processes and are compostable and biodegradable, thus

can fully revert back to nature. TENCEL™ Modal and TENCEL™ Lyocell fibers are designated by the USDA (U.S. Department of Agriculture) BioPreferred® Program.

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 level of 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.

Key Facts & Figures Lenzing Group 2018
Revenue: EUR 2.18 bn
Nameplate capacity: 1,034,000 tons
Employees: 6,839

TENCEL™, VEOCEL™, LENZING™, REFIBRA™, ECOVERO™, LENZING MODAL™, LENZING VISCOSE™, MICROMODAL™ and PROMODAL™ are trademarks of Lenzing AG.

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Innovative by nature

Press release

Appendix:

Brands and Industry partners who adopt TENCEL™ Lyocell fibers with REFIBRA™ Technology

1. Brands enabled by TENCEL™ Lyocell fibers with REFIBRA™ Technology include:

Brand name
Bonobos
Country Road
Closed
DL 1961
Eileen Fisher
Hoot
Kings of Indigo
Levi's
Mara Hofmann
Madewell
Patagonia
Patine Paris
Reformation
Sevda
GUESS

2. TENCEL™ Lyocell fibers with REFIBRA™ Technology are already adopted in yarns and fabrics produced by the following industry partners:

AMEA

Name of Company	Location	Product Type
Anubha	India	Denim
Indo Count Industries Limited	India	Home Textiles
Weslpun	India	Home Textiles
AL-Karam Textiles Mills (Pvt) Ltd.	Pakistan	Home Textiles
Artistic Denim Mill Ltd	Pakistan	Denim
Artistic Fabric & Garment Industries (Private) Limited	Pakistan	Denim
Artistic Milliners (Pvt.) Ltd.	Pakistan	Denim
Azgard Nine	Pakistan	Denim
Crescent Bahuman	Pakistan	Denim

Fazal Cloth Mills Ltd.,	Pakistan	Woven
Indigi Textile Ltd.	Pakistan	Denim
Naveena Denim Mills Karachi (NDM)	Pakistan	Denim
Naveena Denim Exports Mills Lahore (NDL)	Pakistan	Denim
Sapphire Textile Mills Ltd	Pakistan	Denim/Woven
Soorty Enterprises (Pvt) Limited	Pakistan	Denim
Divine Worldwide (Pvt) Ltd	Sri Lanka	Knits
Barutcu Tekstil San.	Turkey	Woven
BOSSA Ticaret ve Sanayi Isletmeleri T.A.S	Turkey	Denim
Calik Denim Tekstil	Turkey	Denim
DNM TEXTILE	Turkey	Denime
Dynamo	Turkey	Denim/Woven
Ekoten	Turkey	Knits
Gülle	Turkey	Yarn spinner, Knits
Karacasu	Turkey	Yarn spinner, Knits
Karsu Tekstil San.AŞ	Turkey	Yarn spinner, Knits
Kipas	Turkey	Denim
Fateks Giyim San. A.S.	Turkey	Knits
IPEK Tekstil Ve Dis	Turkey	Garment maker
Orta	Turkey	Denim
Sayin Tekstil San	Turkey	Knits
Soktas Dokuma Isletmeleri San	Turkey	Woven
Veritas Tekstil	Turkey	Home Textiles
Zorlu Holding A.S	Turkey	Home Textiles
TUSA TEKSTIL AS	Turkey	Denim