

feels free,
naturally



TENCEL™ Denim



Feels so right

TENCEL™ Denim

TENCEL™ Denim cellulose fibers of botanic origin are tailored to a sustainable lifestyle, liberating personal expression through movement by its natural comfort, smoothness and versatility.

For more than 150 years, denim has been a growing part of the cultural landscape around the world. Its versatility allows it to be worn as work wear as well as fashion.



feels right features



botanic origin

TENCEL™ Lyocell and Modal fibers are manufactured from the renewable source of raw material wood, harvested from certified and controlled sources following the stringent guidelines of the Lenzing Wood and Pulp Policy.



sustainable production

TENCEL™ Denim gives customers peace of mind knowing their products are eco-responsible have a low carbon footprint. Jeans made with TENCEL™ Lyocell and Modal fibers use innovative technology with low amounts of water.

TENCEL™ Lyocell fibers have gained the reputation for their environmentally responsible, closed loop production process, which 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 at a recovery rate of more than 99%.

Numerous Lenzing innovations have been integrated in the production of TENCEL™ Modal fibers, to make the process environmentally sound. Lenzing strives to safeguard resources for future generations by the use of renewable energy and by the recovery of process chemicals.

feels free, naturally



carbon neutral

Carbon-zero TENCEL™ Lyocell and Modal fibers contribute to reducing climate impact. Acting on Lenzing's commitment to the Science Based Targets initiative and supporting the UN Sustainable Development Goals, carbon-zero TENCEL™ Lyocell and Modal fibers are third party certified as carbon neutral by means of carbon emission reduction and respective compensation measures. These fibers contribute to protecting the environment and reducing climate change, are developed with three pillars:

- lowering carbon emissions,
- using renewable energy sources at Lenzing production sites, and
- supporting verified global carbon reduction projects to compensate for fiber related emissions that are not yet avoidable.



supply chain transparency

With fiber identification technology based on a special production process, TENCEL™ fibers can be verified as authentic in the value chain through Lenzing testing. This method of identification supplements transparency and traceability in the supply chain and ensures the authenticity of TENCEL™ fibers.



TENCEL™ Lyocell fibers are versatile and distinguished by their high tenacity profile among cellulose fibers.



matte

Both indigo-colored dye and lyocell fibers have a natural shine. LENZING™ Lyocell Matte fibers are specially designed for applications to scatter light and diminish unwanted glare, and can therefore be used in place of standard lyocell fibers to reduce the shine of conventional indigo-dyed denim applications made with lyocell fibers.



long-lasting softness

Exhibiting high flexibility, TENCEL™ Modal wood-based fibers offer textiles a long-lasting quality of exquisite softness. Owing to the fiber's sleek cross section, TENCEL™ Modal fibers enhance the soft touch of fabrics even after repeated washing.



smoothness

TENCEL™ Lyocell fibers are naturally smooth to the touch and enhance the quality of fabrics to lightly glide over your skin.



contributes to breathability

TENCEL™ Lyocell and Modal fibers support body temperature regulating properties through their moisture management. Derived from natural material, the microscopic fibrils of lyocell cellulosic fibers and sub-structure of modal fibers are structured to regulate the absorption and release of moisture, contributing to fabric breathability that support the body's natural thermal regulation.

applicable technologies



Eco Color technology

Eco Color technology implements the process of spun-dyeing, where color pigments are deeply embedded into TENCEL™ Modal fibers. Spun-dyeing provides efficient ecological advantages, whereby resources are used sparingly. This eco-responsible technology offers long-lasting color-fastness and design flexibility in textiles.



Eco Soft technology

TENCEL™ Modal fibers are produced by Eco Soft technology, offering exquisite softness to textiles. The technology uses an integrated pulp-to-fiber process that has high recovery rates of process ingredients and generates very low emissions to air, making this fiber an environmentally responsible choice.



REFIBRA™ technology

The pioneering REFIBRA™ technology involves upcycling cotton scraps from garment production, in addition to wood pulp, where the raw material is transformed to produce new virgin TENCEL™ Lyocell fibers to make fabrics and garments.



Indigo Color technology

Compared to water and energy intensive conventional indigo dyeing that requires multiple dyebaths, Indigo Color technology provides sustainable indigo dyeing for TENCEL™ Modal fibers with substantial water, chemical and electricity savings, less wastewater produced and no heat energy used.

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