

# WE PUSH THE LIMITS OF CONVENTIONAL FIBRES

Our mission is to replace synthetic textiles with materials derived from nature but sustainably created in the laboratory. These biomaterials overcome the limits of natural fibres and feature superior performance in terms of sweat absorption, strength and odour reduction.

**AREAS**

ACADEMY  
FOR **RESEARCH**  
AND **ENGINEERING**  
IN **APPAREL**  
AND **SPORT**

# BIOLIGHT

## BEECH FIBRE, DURABLE AND BREATHABLE

BIOLIGHT is a plant-based fibre that gives UYN garments unique characteristics. Derived from the cellulose of beech plants, this fibre is smooth, soft and bright, and provides an extremely pleasant touch.

BIOLIGHT is characterised by its breathable properties and its ability to retain moisture (twice as much as cotton). Thanks to its structure, BIOLIGHT fabric helps to keep the skin cool and dry.



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# KAPOK

## THE VEGETABLE WOOL



Nature never fails to amaze us. Nature gives us KAPOK, a precious and totally organic fibre obtained from the fruit of the Ceiba Pentandra, a sacred plant that grows up to 60 metres high, widespread in the rainforests of South America.

Known as, 'vegetable wool' for its extraordinary lightness, KAPOK fibre has only recently been used in the textile industry for padding cushions and mattresses. We at UYN were the first to succeed in using the natural yarn in sportswear - as a fabric with exceptional active properties and not as padding.



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# FLEXICORN

## THE SUSTAINABLE ALTERNATIVE TO ELASTANE

FLEXICORN has made it possible for us to replace synthetic elastane fibres with a recyclable, more sustainable and less polluting material with equivalent performance. This innovative yarn is derived from corn which isn't used for human consumption and glucose fermentation. With FLEXICORN we have reduced energy consumption, CO2 emissions and the impact of our products on the environment.

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# EUCALYPTUS

WOOD HAS NEVER BEEN SO COMFORTABLE



The wood obtained from Eucalyptus trees becomes ECOLYPT, a 100% sustainable natural fiber with exceptional properties. The characteristics of the pulp of the wood from which it is obtained give ECOLYPT strength and great elasticity. Its structure is composed of very small hydrophilic fibers that absorb up to 50% more moisture than cotton. In addition, the fiber is highly breathable, minimizes the formation of odors and thanks to its temperature regulating properties is able to provide a cooling effect in hot temperatures and warm in cold days. The entire production process of ECOLYPT fiber is characterized by a closed loop: all water and enzymes are recovered and reused in a further production process.



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# NATEX

**100% NATURAL.  
100% FUNCTIONAL.**

The obsessive search for high quality materials led us to select Natex, a bio-based high-tech yarn. Natex represents the highest level of combination of performance and respect for the environment.

## LESS SYNTHETICAL, MORE FUNCTIONAL

- 25% lighter than traditional nylon
- 50% faster to dry than nylon
- 100% eco-friendly and petroleum free
- Bacteriostatic
- Anti-odor
- Ultra elastic



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