



NATURALLY

A SMARTER SUSTAINABLE CHOICE

SENSIL® ByNature is the industry-first premium **Nylon 6.6** that replaces part of the fossil feedstock. A first for the textile apparel industry, **SENSIL® ByNature** gives environmentally conscious consumers a meaningful option to reduce carbon footprint and help lower the consumption of fossil resources without sacrificing the performance, comfort, and durability they love about their favorite **SENSIL®** premium Nylon designs.



bio-materials



lower fossil use



performance



durability



SENSIL® ByNature is crafted with an innovative production process that replaces a portion of the ingredients traditionally derived from fossil feedstock with renewable raw materials.

This cuts down on consumption of fossil feedstock, reduces greenhouse gases, and substantially improves the sustainability profile of apparel made with **SENSIL® ByNature** fabrics.

Check below to learn more about the technology behind this next generation sustainable man-made fiber, brought to you by NILIT.

TECHNOLOGY

The bio-materials in **SENSIL® ByNature** are made with the certified Biomass Balance (BMB) approach which was pioneered by BASF for use of renewable raw materials in the process. Compared to conventional Nylon yarn made from fossil feedstock, in this approach renewable resources such as bio-gas derived from organic waste is used as a feedstock in the very first steps of the production process. The bio feedstock amount is then allocated to specific products sold by means of the certified method.

The technology considerably improves a garment's Product Carbon Footprint and takes the apparel industry closer to a more sustainable position. The proportion of the biomass balanced product in the final **SENSIL® ByNature** yarn is 55%.



1

SENSIL® ByNature is crafted with an innovative production process that replaces a portion of the ingredients traditionally derived from fossil feedstock with renewable raw materials.



3

Through a certified Biomass Balance (BMB) approach which was pioneered by BASF for use of renewable raw materials in the process, the bio feedstock amount is then allocated to specific products sold by means of the certified method.



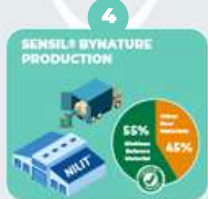
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Make a conscious choice to help lower CO₂ deposits in the atmosphere and reduce dependence on fossil feedstock, at the same time you guarantee exactly the same benefits and advantages of the **SENSIL®** premium Nylon you already know.



2

The bio-materials in **SENSIL® ByNature** derived from renewable resources such as bio-gas from organic waste are used as feedstock in the very first steps of the production process.



4

The certified biomass balance product is then used in the fiber production at NILIT. The technology considerably improves a garment's Product Carbon Footprint.



TOTAL PRODUCT SUSTAINABILITY

- Saves 900 Kg of CO₂ eq. per 1 ton of standard Nylon 6.6 fabric
- Promotes the use of renewable raw materials
- Made from reclaimed organic waste
- Same dyeing, knitting, mechanical, and physical properties as NILIT's conventional **SENSIL® Nylon 6.6**
- Can customize with other **SENSIL®** attributes by request: performance, well-being, or biodegradability

SENSIL® ByNature is manufactured under the stringent NILIT TPS criteria resulting in a further reduction of carbon footprint, elimination of toxic emissions, conservation of water and energy, and zero waste.

NILIT manufactures the largest portfolio of sustainable premium **Nylon 6.6** performance and fashion fibers and yarns in the industry. **SENSIL® ByNature** is the most recent addition to the **SENSIL®** consumer brand portfolio of sustainable premium Nylon products that are specifically targeted to the apparel industry's most pressing environmental challenges such as water and energy conservation, reduced ecosystem impact, and incorporation of more renewable and recycled inputs.

CERTIFICATION AND VERIFICATION

NILIT's biomass balance approach is pioneered by BASF and ISCCplus certified. **SENSIL® ByNature** yarns are certified as not harmful to human health according to Oeko-Tex standards.

Exceptional products branded and identified with **SENSIL® ByNature** hangtag have been verified and tracked to ensure origin and performance.

BENEFITS

Retains all the performance and appearance advantages of **SENSIL®** premium Nylon while lowering CO₂ deposits in the atmosphere and reducing dependence on fossil feedstock.

Incredibly soft and remarkably strong for long-lasting fabrics that will remain like new for years.

Exceptionally durable and wear-resistant products can be repurposed and recycled for additional contributions to textile sustainability and circularity.

