functional and creative textiles

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Wevotex introduces textile recycling 2.0 – a leap forward in Corporate Social Responsibility (CSR)

Wevotex introduces

Recycling of rejected laundry textiles to a new high-quality fiber . . . SaXcell

Environmental effect

Growing 1 kg. of cotton requires 8,000 liters of water, and a lot of fertilizer and pesticide.

Mechanical recycling

It is possible to recycle pre-consumer waste. However, the quality of the recycled cotton fibers is clearly less than the quality of virgin cotton. In laundry practice this can lead to problems like weight loss, pilling and reduced lifespan.

It is not possible to recycle rejected laundry textiles to high quality products. Common practice is low value applications such as cleaning rags and insulation material. This is called downcycling.

SaXcell - chemical (molecular) recycling

The cotton fibers are dissolved in a solvent and rebuilt to new material. The result is a new fiber with optimum properties concerning:

- tensile strength
- softness
- breathable
- thermal properties
- dyeing

This makes the fiber extremely suitable for high-quality applications in, for example (professional) garments and household textiles.

SaXcell fibers are very suitable for blending with cotton, polyester or other fiber materials.

The production process of SaXcell is environmentally friendly because the solvent used is recovered again.

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SaXcell – our proposal

Closing the loop, 100% circular. Wevotex takes your rejected laundry textiles back and ensures that high-quality products are made from it.

Garments. . . bed linen. . . terry cloth. . . Everything is possible.

SaXcell – actual situation

April 2020, a shareholder agreement was signed between the existing shareholders of SaXcell BV on the one hand and a consortium of investors consisting of 3 companies in Turkey and 2 Dutch companies on the other hand. The Dutch companies that invest in the consortium are WeVoTex and Sympany, a company that collects textile waste.

The objective is to scale up the SaXcell production process from a laboratory scale to a pilot plant with a capacity of 100 kg of textile waste per day.

The production process of SaXcell consists of 2 steps:

- pulping: the conversion of textile waste into a processable raw material
- wet spinning: converting the pulp into fibers

After these steps, the SaXcell fibers can be further processed in the textile chain into end products, such as laundry textiles or garments.

During the pilot phase the pulping will take place in the Netherlands and the wet spinning including follow-up steps will take place in Turkey. 2 years have been envisaged for the pilot phase. Decisions to build a production facility for SaXcell will be taken during or immediately after the pilot phase.

A definitive location has been chosen for the pilot plant and the necessary process equipment has been purchased. The first pilot productions will start in October 2020.

During or immediately after the pilot phase, decisions to build a production facility for SaXcell will be made.

Interested? Get in touch:

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