The textile industry consumes a huge amount of natural resources. There is a growing need to replace cotton and oil with environmentally more sustainable materials. At the same time municipalities globally have increasing problems with textile waste and microplastics. Ioncell enables conversion of cellulose based raw materials into new fibers with superior properties.

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**Process**

The Ioncell process utilizes a solvent called ionic liquid to dissolve cellulose. In the dissolved state, cellulose can be transformed into beautiful, strong fibers using the dry-jet wet spinning technology. The only chemicals applied are the non-toxic ionic liquid and water. They are both re-circulated in the process in a closed loop.

**Fibers**

Ioncell fibers feel soft and are strong even when wet. The fiber properties of Ioncell are equal or better than viscose and Tencel® fibers. Because of their high tenacity, Ioncell fibers are optimal in technical applications such as composites.

**Patents**


**Key Publication**