

# Embrace traceability. Weave a brighter future for cotton.



## Why Cotton Traceability?

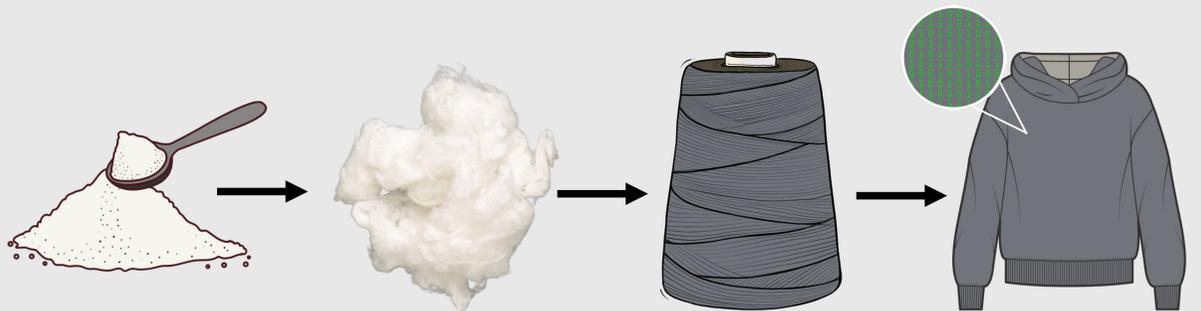
Cotton Traceability is a big step in the direction of a more transparent fashion supply chain that offers valuable and sufficient insights into the whole textile and clothing industry. Traceability not only makes it easier to trace cotton's origins but also build trust and confidence with consumers by providing transparent and verifiable information about your cotton, empowering them to make informed purchasing decisions. Sustainability is essential to the textile business and is driven by traceability.

Stay ahead of regulatory requirements (EU Strategy for Sustainable Textiles, US Uyghur Forced Labor Prevention Act, Supply Chain Due Diligence, Digital Product Passport etc.) and industry standards by implementing Tailorlux's physical traceability solution, demonstrating your commitment to compliance and responsible sourcing practices.

## IntegriTEX® for Cotton:

IntegriTEX® is a traceability system patented by Tailorlux that is based on dispensing tracer fibers accurately into a cotton process during ginning, yarn-spinning or shredding. The tracer fiber is based on PP, PA6 or viscose that is enriched with a tracer pigment that has no influence on the final product.

The Tailor-Scan® 4 handheld spectrometer helps you to scan this pigment within fiber bales, yarn, fabrics and garments. IntegriTEX® is a backend for any traceability solution that pursues full transparency and physical proof over paperwork.



## Application:

Inorganic Tracers become an individual code for each manufacturer or cotton variety. These Tracers are embedded in a viscose and added by dosing device in exact quantities to the material stream. These fibers can then be easily integrated at the gin and spinning mills, blending them together with untreated cotton without hindering standard procedures. The tracers are added at a ppm-level to implement a spectral fingerprint that can be detected by handheld and inline-spectrometers without any change of the product properties. The technology enables real-time authentication and is relatively low cost.



## Detection:

Other than typical tracers, the IntegriTEX® tracers can be detected in the field and in the production. Pellets and yarns can be examined during production or during transactions by using the handheld spectrometer Tailor-Scan 4. The Tracer is an inorganic pigment of a crystalline structure based on a ceramic material. It is the special and patented know-how of Tailorlux to manipulate these pigments in a way that it emits a customized spectra when scanned with the spectrometer.

## Marker:

Customized luminescent emission – the “optical fingerprint” individually adapted to your product.

## Sensor:

Our sensors deliver results within seconds while ensuring the highest security level.

## Data:

Tailorlux ensures the availability of product data from the manufacturer to the end user.

