

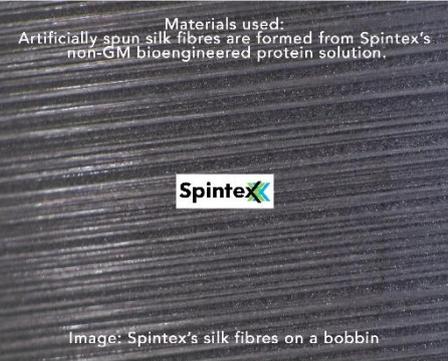
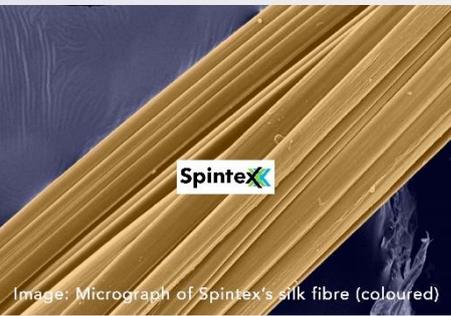
Fashion & Textiles: Innovation in Sustainability

LCB Depot's exhibition & events programme highlights work from a different creative industry every month. In April 2020 the focus is on fashion and textiles.

Artists and designers from across the country including those based in Leicester and at De Montfort University will explore sustainable practices from bespoke tailoring of long lasting garments to innovative new materials.

To find out more visit lcbdepot.co.uk/event/fashion-2020

#sustainablefashion @lcbdepot

FASHION & TEXTILES: INNOVATION IN SUSTAINABILITY SPINTEX - SPINNING SILK LIKE SPIDERS	FASHION & TEXTILES: INNOVATION IN SUSTAINABILITY SPINTEX - SPINNING SILK LIKE SPIDERS	FASHION & TEXTILES: INNOVATION IN SUSTAINABILITY SPINTEX - SPINNING SILK LIKE SPIDERS
 <p>Image: Solution dyeing of Spintex's silk fibres</p>	<p>Materials used: Artificially spun silk fibres are formed from Spintex's non-GM bioengineered protein solution.</p>  <p>Image: Spintex's silk fibres on a bobbin</p>	<p>Spintex fibres require no degumming, and are immediately formed pure and undegraded at room temperature.</p>  <p>Image: Micrograph of Spintex's silk fibre (coloured)</p> <p>Removing the industry's high-energy water baths, will reduce the CO2 impact of silk production by over 50%.</p>
<p>Naturally undegraded, Spintex fibres are unbleached, and a solution dyeing process that incorporates far smaller dye quantities directly into our solutions allows coloured fibre spinning, reducing water consumption by several orders of magnitude. Thus, Spintex's technology combines both, sustainability & top-grade quality, offering a unique seller proposition within the global silk fashion market.</p>	<p>Spiders are Nature's master spinners, combining just water and protein with a small pulling force, to produce silks at room temperature, that outperform many man-made fibres. Like a spider, Spintex pull their fibres from their non-GM bioengineered protein solution, which immediately solidifies the solution, replicating Nature's unique self-assembly process. Spintex can pull continuous, high-quality fibres, using 1000x less energy than equivalent plastic fibres.</p>	<p>Spintex fibres match the strength, look and feel of natural silk, filling the gap for sustainable sources of the highest-quality of silks. Their green chemistry complies with the ZDHC Manufacturing Restricted Substances List, reducing ecotoxic effects and preventing toxic runoff compared to current processes.</p>

Spinning silk like spiders

Spintex

Artificially spun silk fibres are formed from Spintex's non-GM bioengineered protein solution

At Spintex, we artificially spin high-quality silk fibres through a unique spider inspired approach. Spiders are Nature's master spinners, combining just water and protein with a small pulling force, to produce silks at room temperature, that outperform many manmade fibres. Like a spider, we pull our fibres from our non-GM bioengineered protein solution, which immediately solidifies the solution, replicating Nature's unique self-assembly process. We can pull continuous, high-quality fibres, using 1000x less energy than equivalent plastic fibres.

Our fibres require no degumming, and are immediately formed pure and undegraded at room temperature. Removing the industry's high-energy water baths, will reduce the CO2 impact of silk production by over 50%. Our fibres match the strength, look and feel of natural silk, filling the gap for sustainable sources of the highest-quality of silks.

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Artist Bio

Spintex artificially spins high-quality silk fibres through a unique spider inspired approach. A spinout from the University of Oxford and the EU H2020 project FLIPT, consisting of world-experts in the fields of silks & biomaterials. In 2019, Spintex was awarded an EU grant to support further commercialisation of Spintex's core technology and a non-dilutive prize package from the Panacea Stars accelerator. Spintex is also part of the Fashion For Good accelerator, focused on sustainability in the fashion industry.

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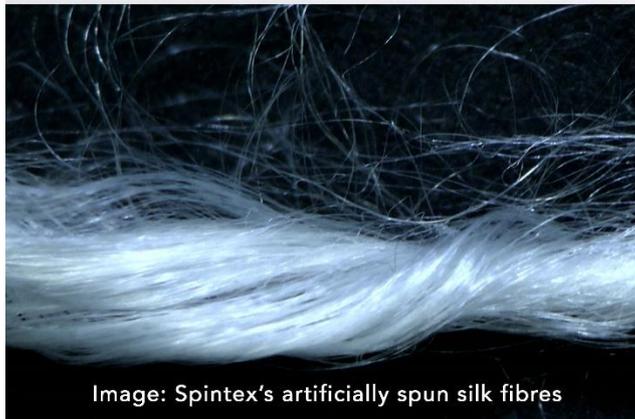


Image: Spintex's artificially spun silk fibres

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