

The background of the entire page is a light gray, stylized illustration of lotus leaves. The leaves are depicted with fine, curved lines radiating from the center of each leaf, creating a sense of movement and texture. They are arranged in a circular, overlapping pattern, reminiscent of a blooming lotus flower.

Lotux

Go Beyond Green Textiles



About Lotux

LOTUX International Holdings Co., Limited is an outstanding private enterprise specializing in the research, development, production, and sales of recycled resources and environmentally friendly materials. Our goal is to revolutionize in agricultural cultivation, sustainable fiber and eco-friendly tableware by using modern technology and innovation.

Why We Need Natural Fiber

The fashion industry's increasing reliance on synthetic fibers, such as polyester, has raised significant environmental concerns. According to Textile Exchange's 2024 annual Materials Market Report[^], the production of fossil-based synthetic fibers like polyester has surged from 67 million tonnes in 2022 to 75 million tonnes in 2023. These materials are not biodegradable and contribute to environmental pollution. In contrast, natural fibers like Lotuxilk™ provide a sustainable, biodegradable alternative that can help reduce the industry's reliance on fossil-based materials.

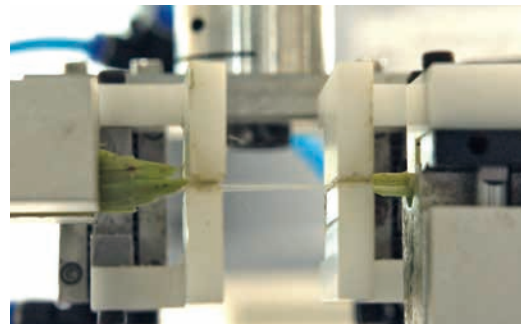
[^]Textile Exchange (2024) Materials Market Report, <https://textileexchange.org/knowledge-center/reports/materials-market-report-2024/>

Usage of Lotus Fiber

Lotus fiber has been known for its luxurious texture and high quality for centuries. The traditional method of extracting the fiber has always been time-consuming and labour-intensive, involving handpicking the lotus stems and extracting the silk fibers one by one, so it is considered a luxury material and is often more expensive than other textiles.



Our Breakthrough

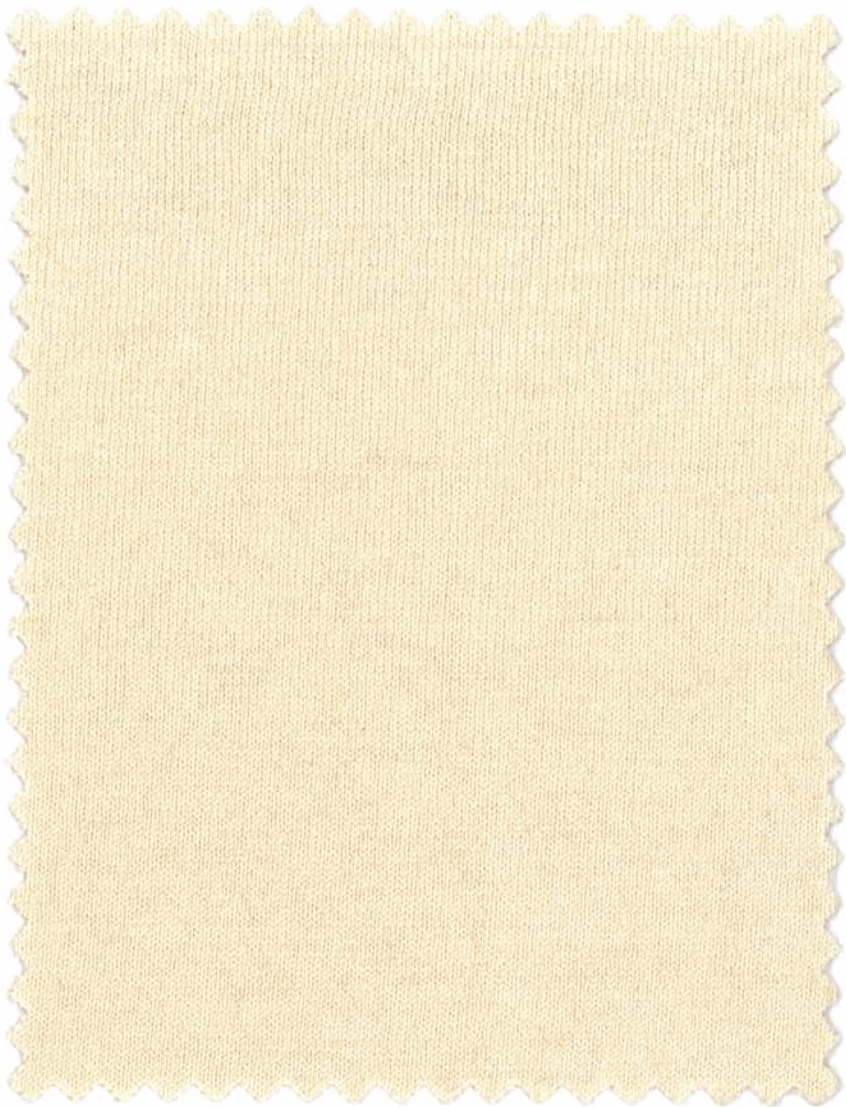


LOTUX has developed two patented technologies that utilize AI and automatic mechanization to efficiently extract Lotuxilk™ from lotus stems. This innovation has significantly increased production efficiency and lowered the labour and time cost of extracting the fiber, making Lotuxilk™ more accessible in the textile industry.

Lotuxilk™

Lotuxilk™ Fabric

2/36Nm
Counted based on 24*50mm sample
626 BCI Cotton 466 Lotuxilk™



Textiles made by Lotuxilk™

Benefits of Lotuxilk™

100% Natural, Organic, Vegan & Aquatic Fabric

Derived entirely from natural lotus stems, making it vegan and eco-friendly. Lotus plants are able to grow in wetland ecosystems, which can help to preserve and protect these important habitats



Deodorizing

Keeps fabrics fresh for longer period. Ideal for activewear, bedding, and everyday clothing. Maintains freshness and comfort



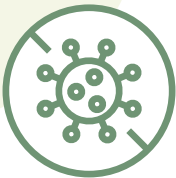
Practically Wrinkle-Proof

Lotuxilk™ resists wrinkles, maintaining a sleek appearance



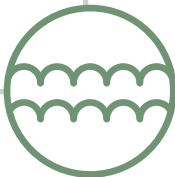
Unfavourable for Bacterial Growth

According to Intertek's report, our Lotuxilk™ reduces 99.9% of Staphylococcus Aureus and Klebsiella Pneumoniae



Luxuriously Soft

Offers a silky, luxurious texture that feels soft on the skin



Lotuxilk™ Fabric

2/30Nm

Counted based on 24*50mm sample
900 BCI Cotton 135 Lotuxilk™

Durable & Lightweight

Strong yet lightweight, ideal for high-performance apparel



UV Protective

Protects skin from harmful UV rays, reducing sunburn and long-term damage. Perfect for outdoor activities in sunny climates



Moisture-Wicking & Breathable

Lotuxilk™ has the ability to wick moisture away from the skin, which helps to keep the wearer dry and comfortable. It is also highly breathable, allowing air to circulate through the fabric and keep the wearer cool



Thermoregulating

Keeps the wearer cool in warm weather and warm in cooler conditions



Zero Waste Approach

LOTUX owns a fully integrated supply chain, from lotus cultivation to fiber extraction and yarn production. Our strategic partnership with He Yuan Hefeng Ecological Agriculture Development Co., Ltd. allows us to source high-quality lotus stems sustainably. The lotus planting area is in a designated water source protection area in China, where no harmful chemicals or pesticides are used, minimizing the environmental impact of Lotuxilk™.

After extracting Lotuxilk™, the leftover stems are upcycled into different new products, one of our products is biodegradable disposable tableware.



At **LOTUX**, we are committed to contributing to the community, country, and environment. Our vertical integrated supply chain ensures we control both quality and cost at every stage, while promoting zero waste, supporting rural communities, and sustainable agricultural practices.

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Lotux International Holdings Co., Ltd



www.lotux.com.hk

