



KERTEX™ was originally designed as a high-strength textile for use in the U.S. Army.

A sample swatch made of 100% KERTEX fiber.

Summary

KERTEX™ is a high-performance fabric created with keratin bio-polymer and developed for the U.S. Army as an American-made, cost-effective alternative to petroleum-based synthetic fabrics.

Key Facts

- KERTEX is created with waste keratin to deliver a cost-effective, American-made fabric.
- Keratin is a protein bio-polymer with unique structural properties which provide excellent strength and durability.
- KERTEX and its production process offer a range of industry-disrupting advantages over natural and synthetic fabrics.

Benefits

American-Made Cost-Effectiveness: We source waste keratin, such as chicken feathers from the poultry industry, from U.S. farms, aligning with the Berry Amendment. This approach provides a cost-effective solution to manufacture high-strength textiles in the U.S.

Enhanced Mechanical Properties: Novel ingredients and processes enhance strength, elongation, tenacity, and filament features, including comfort, elasticity, and reduced sheen. KERTEX fiber tenacity is demonstrated to be on par with nylon.

Scalable Manufacturing: Oceanit has previously demonstrated scalable textile manufacturing and delivered multiple apparel and textile products to the DoD successfully. Working relationships exist with trusted Contract Manufacturing Organizations (CMOs) to handle yarn making, knitting and weaving of KERTEX webbings and fabrics.

Strategic Advantage: Chicken feathers offer a strategic advantage as a raw material, suited for diverse regions affected by weather and drought. A single chicken processing plant can generate more raw fiber from feathers than the entire hemp fiber production in the country. Ensuring multiple durable material options in the supply chain is crucial for U.S. resilience and independence.