*1. Introduction*

Outlast® Material is a textile engineered to optimize thermal regulation and comfort. Certified under OEKO-TEX® Standard 100, it has been evaluated for harmful substances and rely to strict international textile safety standards, making it necessary option for sustainable and performance-driven applications.

*2. Standards and Certifications*

OEKO-TEX® Standard 100

* + This certification ensures that every component of the textile product is free from harmful substances and is safe for human use.
  + It confirms compliance with stringent quality and safety regulations, making Outlast® Material an ideal choice for environmentally conscious and health-focused applications.

*3. Technical Specifications*

Thermal Resistance

Range: 0.128 - 0.17 m²K/W

* + This thermal resistance range provides effective insulation by reducing heat loss, thus contributing to enhanced comfort in varying ambient conditions.

Material Composition

* + Recycled Polyester: Contributes to durability and a reduced environmental footprint by reusing post-consumer materials.
  + Lyocell: A sustainable and biodegradable fibber derived from natural cellulose, known for its softness and breathability.
  + Natural Wax: Enhances the material’s moisture resistance and provides an additional layer of environmental sustainability.

*4. Testing Methodology*

Thermal Resistance Testing:

* + The material undergoes a thermal analysis to determine its resistance that ranges (0.128 - 0.17 m²K/W), ensuring consistent insulation performance.

Chemical Safety Assessment:

* + Compliance with OEKO-TEX® Standard 100 is confirmed through rigorous testing for harmful substances at every stage of production.

Durability and Wear Tests:

* + Ensures the fabric maintains its structural integrity and performance through repeated use and environmental exposure.

*5. Sustainability and Environmental Impact*

Biodegradability:

* + The natural components and lyocell used in the material contribute to biodegradability, ensuring reduced environmental waste at the end of its life cycle.

Renewable Resources:

* + Incorporating renewable resources such as lyocell and natural wax aligns with environmentally sustainable practices, reducing reliance on non-renewable materials.

Eco-Friendly Production:

* + Manufacturing processes are optimized to reduce energy consumption and minimize carbon emissions, further enhancing the product’s sustainability credentials.

*6. Maintenance and Care Guidelines*

Washing:

* + Follow the care label guidelines using a mild detergent.
  + Wash at recommended temperatures to preserve fabric integrity.

Drying:

* + Air dry whenever possible, avoiding hot temperatures that may compromise the natural wax treatment.

Storage:

* + Store in a clean, dry environment away from direct sunlight to prolong the lifespan of the fabric.

Inspection:

* + Regularly inspect for any signs of wear or damage. In case of significant wear, consider professional advice to ensure continued performance and safety.

*7. Contact*

For any questions regarding use or maintenance, please contact our customer service:

* Social Networks: (links available on our official website: tse-project.vercel.app)