



Wool Thermal Cover – Data Sheet



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1. Description

The FriloTech Wool Thermal Cover is a reusable, sustainably manufactured insulation solution designed to stabilize temperature-sensitive shipments during air freight and short-term storage. It reduces thermal peaks and supports passive thermal protection in the 2–25 °C range without the use of coolants. Ideal for pharmaceutical, biotech, and industrial products.

2. Application

Use Case: Air cargo shipments

Target Products: Pharmaceuticals, biotech goods, industrial materials such as paints or coatings

Recommended Temperature Range: 2–25 °C

Critical Limits: Not suitable for prolonged high-temperature exposure (e.g. >10h in direct sun on truck)

Not suitable for: Strict cold chain compliance (e.g. 2–8 °C range)

3. Technical Specifications

Parameter	Value
Outer Shell	Breathable cotton with water-repellent finish (natural fats)
Inner Insulation	Sheep wool padding (250 g/m ²)
Inner Lining	Cotton fleece
Seams	100% cotton
Fastening	Plastic Velcro straps
Thickness	Approx. 20 mm

4. Sizes

EU pallet	120 x 80 cm 47 x 31,5 in	Heights of 100 / 120 / 160 cm or 39 / 47 / 63 in (including pallet). Other heights on request.
US pallet	120 x 100 cm 47 x 39,4 in	
US XL pallet	130 x 107 cm 51.2 x 42.1 in	
Asian pallet	110 x 110 cm 43.31 x 43.31 in	

5. Certifications

Insulating Material: GOTS-certified sheep wool

Outer and Inner Shells: GOTS and IVN Best certified cotton



6. Sustainability Profile

- Approx. 98% of the cover is made from renewable or natural materials
- The sheep wool is home-compostable
- Outer fabric and seams are biodegradable cotton
- Only synthetic component: Velcro fastener
- Disposal via standard municipal waste, as components are currently not separable

7. Reusability & Performance

Our natural fat-based finish offers:

- Water and stain repellency (against rain, moisture, water-based contamination)
- Abrasion resistance for extended reusability
- Breathability to avoid moisture buildup inside which enables multiple-use cycles under proper handling.

9. Environmental Impact

By replacing energy-intensive active cooling systems in moderate use cases or multilayer-coated synthetics, the Wool Thermal Cover contributes to:

- Reduced CO₂ emissions
- Less packaging waste
- Increased circularity through natural materials

8. Storage & Handling

- Storage Conditions: Store indoors and protected from direct sunlight
- Storage Limit: Not longer than 1 year
- Cleaning: Gently shake off loose debris; avoid machine washing

10. Disposal & End-of-Life

- Disposal: Follow local waste regulations
- ~98% is compostable or biodegradable (except Velcro, which is easily removable).

Interested in reducing your logistics footprint?

Request your sample today:

✉ info@frilotech.com

