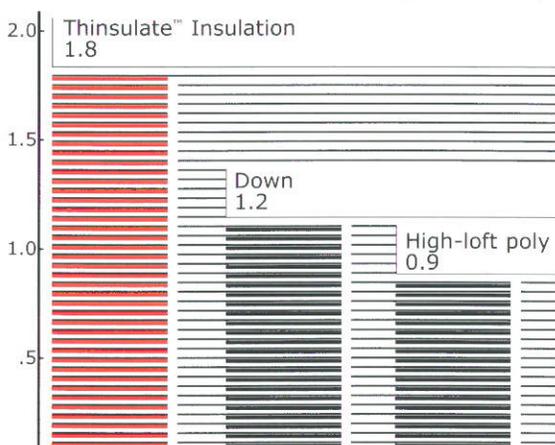


It's all in the fibers

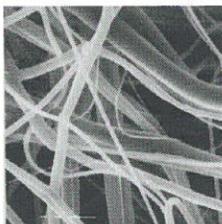
What makes Thinsulate™ Insulation so effective? In a word: microfibers. The unique microfibers of Thinsulate insulation are about ten times smaller than the fibers of other synthetic insulations. This makes them much more efficient at trapping air—the key to the effectiveness of any insulation. It also means there are more fibers packed into the same space, where they can reflect back more of the body's radiant heat.

Thinsulate™ Insulation Type C is ideal anywhere you need a thin, compressible insulation. It is breathable and moisture-resistant, and it can be washed or dry-cleaned depending on individual manufacturers' recommendations. Tests have shown, in fact, that the average "Clo" (a measure of the ability of an insulation to keep you warm) of Thinsulate insulation remains relatively unchanged even after repeated cleanings. It is available with or without scrim (see technical data below).

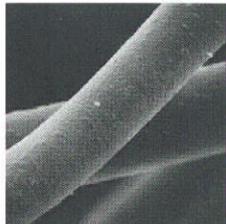
Relative warmth (in Clo)



This chart shows the difference between the insulating ability of Thinsulate™ Insulation and other commonly used materials when equal thicknesses are compared.



The fibers of Thinsulate™ Insulation are exceedingly fine, which makes them ideal for trapping insulating air and reflecting back the body's radiant heat.



The fibers in 6 denier polyester are much thicker and not nearly as effective at trapping air or reflecting back body heat.

Technical data

Thinsulate™ Insulation – Type C

- Uses:** General outerwear, sportswear, gloves and accessories
- Warmth while damp:** Retains insulating ability in damp conditions. Fibers absorb less than 1% by weight of water. Easily dried.
- Flammability:** Class 1—as tested according to procedure described in 16 CFR Part 1610, Federal Flammable Fabrics Act.
- Composition:** 65% olefin, 35% polyester
- Type C:** No scrim—for quilting in widths of 4" - 7" or for adhesive laminating.
- Type CS:** One scrim—construction guidelines allow up to 12" x 18" panels or quilting in widths of 4" - 10".
- Type CDS:** Dual scrim—prequilted in 6" widths, allowing insulation to be free hung or edge stabilized. Check before using light-colored shell fabrics to determine if quilting lines show through.

Typical properties	Thickness		Weight*		Warmth**	
	(cm)	(inches)	(g/m ²)	(oz/yd ²)	Intrinsic Clo (I _c)	R-Value
C, CS and CDS 40	0.30	0.12	43	1.3	0.7	0.6
C, CS and CDS 70	0.50	0.20	74	2.2	1.0	0.9
C, CS and CDS 100	0.70	0.28	105	3.1	1.3	1.1
C, CS and CDS 150	1.10	0.41	157	4.6	1.9	1.7
C, CS and CDS 200	1.40	0.55	210	6.2	2.5	2.2

*Weight excludes scrim (17 g/m² or 0.5 oz/yd² for CS and 34 g/m² or 1.0 oz/yd² for CDS). Scrim is 100% olefin.

**Warmth is for insulation alone. $1 \text{ Clo (I}_c) = \frac{0.18^\circ\text{C} \times \text{m}^2 \times \text{hr}}{\text{K cal}}$ R-value = $\left(\frac{\text{hr} \times \text{ft}^2 \times ^\circ\text{F}}{\text{BTU}} \right)$

Available width: Thinsulate insulation types C, CD and CDS are available in 60" roll width with 3" inside core diameter.



Insulation Products

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40% pre-consumer waste paper
10% post-consumer waste paper

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