

Thinsulate
INSULATION
3M

Type C

A classic: The thin and warm Insulation.



Outdoor wear with
Thinsulate™ Thermal Insulation Type C.

Thinsulate™
INSULATION

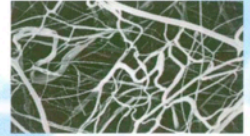
3M

Anything else leaves you cold.

Nature sets the example

Nature provides excellent examples of perfect thermal insulation in the form of fine natural down and furs. Thinsulate™ insulation type C builds on these principles by using microfibrils that are 10 times smaller than fibres of other synthetic insulation. Therefore type C traps more air which increases the insulation effectiveness. In fact, when equal thickness are compared, it provides about one and a half times the warmth of down and about twice the warmth of other high loft insulating materials.

Thinsulate™ Insulation Type C



Magnification 200x

Warmth while damp

Retains insulating ability in damp conditions. Highly breathable material allows damp moisture to escape and thereby improving wearer comfort. Dries quickly and easily.

Applications

The original 'warmth without bulk' insulation for general outerwear, sportswear, professional and workwear, and accessories like gloves and headgear. Easily incorporated into clothing, the lack of bulk gives the wearer greater freedom of movement and comfort.



Easy care

Can be machine washed.

Performance that holds up

Repeated machine washings do not markedly affect the performance of Thinsulate™ insulation type C. Tests have shown that the average measure of the ability of this insulation to maintain warmth remains relatively unchanged even after repeated cleanings.

Low flammability

Fulfills requirements of class 1 according to 16 CFR part 1610, Federal Flammable Fabrics Act. Further, type C contains no harmful materials according to the Forschungsinstitut Hohenstein (International Association for Research and Testing in the Field of Textile Ecology) Oeko-Tex Standard 100, and has been awarded with the Oeko-Tex mark.



Typical Properties

	Thick-ness (cm)	Surface Weight (g/m ²)	Warmth insulating measurement R _{ct} (m ² K/W)	Roll Length (m)	Roll Width (m)
C and CDS-40	0,30	43	0,11	318	1,52
C, CS and CDS-70	0,50	74	0,17	183	1,52
C, CS and CDS-100	0,70	105	0,21	128	1,52
C, CS and CDS-150	1,05	157	0,28	91	1,52
C, CS and CDS-200	1,40	210	0,39	64	1,52
C und CS-250	1,75	263	0,48	55	1,52

Composition

65% olefin, 35% polyester (not including any scrim)

Garment construction

Type C- no scrim: for quilting widths of 10-18 cm or for adhesive laminating.
 Type CS- single scrim: construction guidelines allow up to 30 by 45 cm panels or in quilting in widths of 10-25 cm.
 Type CDS- double scrim: pre-quilted in 15 cm widths, allowing insulation to be free hung or edge stabilised. Check before using light coloured shell fabrics to determine if quilting lines show through.

Care instructions

