

Face:	100% Nomex® IIIA
Insulation - Needle-punch batting:	Thinsulate™ Insulation FR weight: 200 g.



The very Best Quilted Thermal Insulation Liners for the Fire Resistant garment market today.

THERMA® 200

For those bitterly cold workdays in Fall or Winter, when you need the Protection from the elements and you need the Protection from the Fire hazards of your workplace, Difco offers the best Quilted Thermal Insulation Liners in the business. Using our excellent inherent Genesis flame resistant fabrics, we quilt these to the best-in-class FR battings for maximum warmth (CLO value) and wind resistance.

- Flame Resistant
- Excellent thermal insulating properties – high CLO values
- Lightest insulation on the market – maximum comfort and durability
- Unique heat-retaining micro-fiber structure withstands temperatures to -60 C.
- No moisture regain (less than 1 percent of its weight) enabling Thinsulate™ Insulation FR to retain its thermal-insulating properties.
- Moisture management to efficiently wick sweat for quicker drying time
- Three-dimensional fiber pattern with unique thermal-fastening technology ensures no degradation of liner after multiple washings.

Thinsulate™ Insulation FR is an ecological hypoallergenic material, which conforms to international quality standards.

Place swatch here
4.5" x 6"

Place swatch here
4.5" x 5"

Place swatch here
4.5" x 4"

Place swatch here
4.5" x 3"

Place swatch here
4.5" x 2"



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TECHNICAL SPECIFICATIONS

Rev:19031

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			Therma 200	
Weight			10.0 oz/yd ² 339 g/m ²	
Quilted liner		Face:		
		Insulation Needlepunch batting:		
End Use			100% Nomex® IIIA Thinsulate™ Insulation FR weight: 200 g.	
Color			Insulation liner for Parkas, coveralls	
Color				
Test	Method & Specification		Performance	
Flame resistance - initial				
Char length (mm)	ASTM D 6413	max. 100 mm 4.0"		Warp
Melt / Drip		no melt, no drip		Fill
			< 50 mm	< 50 mm
			< 2.0"	< 2.0"
			complies	
Flame resistance - 25 Domestic Laundering				
Char length (mm)	washing AATCC 135 1 - IV - Ai	max. 100 mm 4.0"		Warp
Melt / Drip		no melt, no drip		Fill
			< 50 mm	< 50 mm
			< 2.0"	< 2.0"
			complies	
Thermal shrinkage (%)	500°F/5 min.	max. 10%		N/A
Heat resistance		no melt, separation, dripping or ignition		
Clo Value	ISO 11092	Insulation factor		2.0
Electric Arc Resistance (cal/cm²)	ASTM F1959	with Genesis® 625 outershell		ATPV 43 HAF: 93% (Level 4)
Thermal Protective Performance (cal/cm²)		with Genesis® 625		27
Thermal Protective Performance (cal/cm²)		with Vapro® 525		35
Cleaning shrinkage (%) 5 cycles	AATCC 135 1 - IV - Ai	max. 5%		< 4%
			< 4%	< 4%
Tear resistance Trap (N)	Can/CGSB 4.2 No. 12.2		115 N	100 N
			26 lbf	22 lbf



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