

100% Nomex® IIIA



Revolutionary Combination of Comfort and Flame Resistance (FR) Capabilities

GENESIS® 750

Genesis® by Difco is the quality standard for woven DuPont Nomex® IIIA fiber in the inherently Flame Resistant fabric market. Genesis Fabrics are engineered for the highest technical performance, comfort and durability for your garment needs.

Features and Advantages:

- Nomex® IIIA has the lowest life cycle cost of any commercially available inherent FR fabric based on longevity
- Does not ignite or burn
- Does not melt or drip
- Insulates the wearer from heat
- Resists Break-Open
- Durable, meeting the demands of Industrial laundry standards
- Maintains appearance
- MJS (Air jet) Spinning Technology for superior pilling performance
- FR properties are permanent
- Most vivid color palette in the market place today
- UL Certified to all industry standards, where required*

*certified on WikQik® finish only

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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			Genesis® 750	
Weight			7.5 oz/yd ² 254 g/m ²	
Fiber Content			100% Nomex® IIIA	
Weave			Twill	
Colors				
Test	Method & Specification		Performance	
Flame resistance - initial				
Afterflame (sec)	ASTM D 6413 NFPA 2112 sec 8.3	max. 2 sec	Warp	Fill
Char length (mm)		max. 100 mm 4.0"	0	0
Melt / Drip		no melt, no drip	65 mm 2.6"	70 mm 2.8"
Flame resistance - 100 Ind. washes				
Char length (mm)	washing per section 8.1.3	max. 100 mm 4.0"	Warp	Fill
			75 mm 3.0"	75 mm 3.0"
Instrumented Manikin test	ASTM F1930	% Predicted body burn - max. 50%	17.2%	
Thermal shrinkage (%) initial & after 3 washes	500°F/5 min. NFPA 2112 sec 8.4	max. 10%	<2	<1
Heat resistance - initial & after 3 washes		no melt, separation, dripping or ignition	complies	
Electric Arc Resistance Tested on Genesis®	ASTM F1959 ATPV cal/cm ²	no minimum	6.7 (Level 1) HAF 65%	
TPP contact	NFPA 2112	min. 3 cal/cm ²	as received: 9.5	
TPP with spacer	sec 8.2	min. 6 cal/cm ²	as received: 15.5	
Cleaning shrinkage (%) 5 cycles	AATCC 135 1 - IV - Ai	max. 5%	<4	<3
Tensile Strength Grab (N) initial	Can/CGSB 4.2 No. 9.2 (ASTM D5034)		1300 N 292 lbf	975 N 219 lbf
Tear resistance Trap (N) initial	Can/CGSB 4.2 No. 12.2		290 N 65 lbf	135 N 30 lbf
Component Certified by UL for:	NFPA 2112 ed. 2007		Yes	
	CAN/CGSB 155.20 ed. 2000		Yes	
	NFPA 1977 ed. 2005		Yes	
	CAN/CGSB 155.22 ed. 1997		Yes	
	NFPA 1975 ed. 2009		Yes	
Other:	ASTM F1506 (NFPA 70E /CSA Z462)		meet requirements	
	CSA Z96-2009		N/D	



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