

100% Nomex®  
**STAY DRY PLUS**®



BRIGADE® 650

For those inclement days when you need the surface Protection of water repellency on your Flame Resistant garments, Stay-Dry Plus® fabrics will cover you. Difco's advanced fluorocarbon W/R formulation has been proven superior to standard finishes like Teflon, wash after wash.

*You can rely on our quality!*

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"

# BRIGADE<sup>®</sup> by DIFCO

100% Nomex<sup>®</sup>



STAY DRY PLUS<sup>®</sup>



# TECHNICAL SPECIFICATIONS

Rev:190310

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Stay Dry Plus <sup>®</sup>			Brigade <sup>®</sup> 650	
Weight			6.5 oz/yd <sup>2</sup> 220 g/m <sup>2</sup>	
Fiber Content			100% Nomex <sup>®</sup> IIIA	
Weave			Twill	
Color				
Test	Method & Specification		Performance	
<b>Flame Resistance initial</b>			Warp	Fill
Afterflame (sec)	ASTM D6413	max. 2 sec	0	0
Char length (mm)		max. 100 mm 4.0"	90 mm 3.5"	90 mm 3.5"
Melt / Drip		no melt, no drip	complies	
Thermal shrinkage resistance (%)	500°F/5 min.	max. 3%	< 2%	< 2%
Heat resistance		shall not melt, separate or ignite	complies	
Electric Arc Resistance Tested on Genesis <sup>®</sup>	ASTM F1959 ATPV cal/cm <sup>2</sup>	no minimum	5.8 (Level 1) HAF 61%	
Thermal Protective Performance	TPP contact & with spacer	min. 6 cal/cm <sup>2</sup> with spacer	Contact: 10	+ Spacer: 15
Dimensional Stability 5 cycles	AATCC 135 1 - V - Ai	max. 5%	< 3%	< 3%
Tensile Strength - Grab	ASTM D5034 or Can/CGSB 4.2 9.2	*min. 623 N 140 lbf	1100 N 247 lbf	875 N 197 lbf
Tear resistance - Trap	ASTM D5587 or Can/CGSB 4.2 12.2	*min. 100 N 22 lbf	220 N 49 lbf	110 N 25 lbf
Water repellency	AATCC 22	Rating Initial	100	
		After 5 launderings	min. 90	

\* minimum as per NFPA 1971-2007

UL component certified to:	NFPA 2112 ed. 2007	No
	CAN/CGSB 155.20 ed. 2000	compliant not UL certified
	NFPA 1977 ed. 2005	No
	CAN/CGSB 155.22 ed. 1997	compliant not UL certified
	NFPA 1975 ed. 2009	No
	NFPA 1951 ed. 2007	No
	NFPA 1971 ed.2007	Yes
	CGSB 155.1 ed.2001	No
Compliant to:	ASTM F1506 (NFPA 70E /CSA Z462)	Yes

DuPont<sup>™</sup>  
**Nomex.**

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