

100% Nomex® IIIA

STAY DRY PLUS



**BEST-IN-CLASS OUTER SHELL FABRICS WITH
STAY-DRY® PLUS WATER REPELLANT FINISH**

BRIGADE® 650

Stay Dry Plus™ is Difco's signature Water Repellent finish using an advanced fluorocarbon formulation. All Difco outershells are designed specifically to provide an initial line of defense against the heat and flames of a fire. They also offer exceptional strength and resistance to tears and abrasions.

Outershells made with Difco fabrics are designed using a variety of advanced FR fibers and in three distinct quality ratings: GOOD, BETTER and BEST to ensure you get the exact product to satisfy your requirements.

Features and Advantages:

- The first fabric developed for Fire Fighter outer shells
 - Economical protection with proven dependability
 - Good tolerance to thermal damage
 - Full color range
- Proven performance year after year

End-Uses:

- Structural Firefighting
- Urban Search & Rescue
- Emergency Response
- Wild Lands and Forest Fire Fighting

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[®]
by DIFCO

100% Nomex[®] IIIA



STAY DRY PLUS[®]



TECHNICAL SPECIFICATIONS

Rev:19031

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TenCate Performance Fabrics cannot guarantee the suitability of its products for any particular purpose. Test results in respect of any particular item of product may vary. It's the sole responsibility of the user to perform all testing necessary to determine suitability of the product for user's applications.
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			Brigade [®] 650	
Finish			Stay Dry Plus [®]	
Weight			6.5 oz/yd ² 220 g/m ²	
Fiber Content			100% Nomex [®] IIIA	
Weave			Twill	
Colors				
Tests	NFPA 1971 2007ed. Outer Shell - Component Test Section & Requirements		Results	
Flame Resistance initial	ASTM D6413		Warp	Fill
Afterflame (sec)	8.2	max. 2 sec	0	0
Char length (mm)		max. 100 mm 4.0"	84 mm 3.3"	71 mm 2.8"
Observations		shall not melt or drip	complies	
After 5 washes	ASTM D6413		Warp	Fill
Afterflame (sec)	8.2	max. 2 sec	0	0
Char length (mm)		max. 100 mm 4.0"	69 mm 2.7"	68 mm 2.7"
Observations		shall not melt or drip	complies	
Thermal shrinkage resistance (%) initial	8.6	max. 10%	< 1	< 2
After 5 washes			< 1	< 2
Heat resistance initial & After 5 washes	8.6	shall not melt, separate or ignite / shall not char	complies	
Cleaning shrinkage resistance (%)	AATCC 135 1 - V - Ai 8.25	max. 5%	< 2	< 3
Tear resistance N initial	ASTM D5587	min. 100 N 22 lbf	310 N 70 lbf	230 N 52 lbf
Tear resistance N After 5 washes	8.12	min. 100 N 22 lbf	320 N 72 lbf	185 N 42 lbf
Breaking strength (N) After 10 washes	ASTM D5034 8.50	min. 623 N 140 lbf	965 N 217 lbf	800 N 180 lbf
Water absorption resistance (%) initial & after 5 washes	8.26	max. 30%	1.4%	14.3%
Component Certified by UL for:	NFPA 1971 ed 07		yes	
	CAN/CGSB 155.1		no	
	NFPA 1951 ed 07		no	

DuPont[™]
Nomex.

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