

STAY DRY PLUS®

60% Kevlar®
40% PBI®



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

GUARDIAN® 790

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:

- Good durability
- Superb thermal damage tolerance
- Excellent TPP
- Good break-open resistance
- Good strength and tear resistance
- Low profile rip stop weave

End Use:

- Structural 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"



by DIFCO

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TECHNICAL SPECIFICATIONS

Rev:19031

NOMEX is a registered trademark of E.I. DuPont de Nemours and Company. DuPont Canada Inc. is a licensee. PBI in logo form is a registered trademark of PBI Performance Products, Inc. GUARDIAN is a registered trademark of TenCate Performance Fabrics.

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		Guardian® 790		
Finish		Stay Dry Plus®		
Weight		7.5 oz/yd ² 254 g/m ²		
Fibre Content		60% Kevlar® 40% PBI®		
Weave		Rip Stop		
Colors				
Tests	NFPA 1971 2007ed. Outer Shell Component Test Section & Requirements		Results	
Flame Resistance initial	ASTM D6413		Warp	
Afterflame (sec)	8.2	max. 2 sec	0	
Char length (mm)		max. 100 mm 4.0"	15 mm 0.6"	
Observations		shall not melt or drip	complies	
After 5 washes	ASTM D6413		Warp	
Afterflame (sec)	8.2	max. 2 sec	0	
Char length (mm)		max. 100 mm 4.0"	15 mm 0.5"	
Observations		shall not melt or drip	complies	
Thermal shrinkage resistance (%) initial	8.6	max. 10%	< 4	< 2
After 5 washes			< 3	< 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%	< 3	< 2
Tear resistance N initial	8.12	ASTM D5587 min. 100 N 22 lbf	142 N 32 lbf	159 N 36 lbf
Tear resistance N After 5 washes			min. 100 N 22 lbf	131 N 29 lbf
Breaking strength (N) After 10 washes	8.50	ASTM D5034 min. 623 N 140 lbf	822 N 185 lbf	1129 N 254 lbf
Water absorption resistance (%) initial & after 5 washes	8.26	max. 30%	0.8%	1.2%
Component Certified by UL for:	NFPA 1971 ed 07		yes	
	CAN/CGSB 155.1		yes	
	NFPA 1951 ed 07		no	



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