

**STAY DRY® PLUS**

60% KEVLAR®  
40% BASOFIL®



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

**GLADIATOR® 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:**

- Excellent tolerance to thermal damage
  - Fabric stays supple after exposure to flame
  - Low profile rip stop weave
- Good abrasion and durability

**End Uses:**

- Structural Firefighting
- Welding

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"

# GLADIATOR® by DIFCO

60% KEVLAR®  
40% BASOFIL®

STAY DRY PLUS®



# TECHNICAL SPECIFICATIONS

Rev:19031

KEVLAR is a registered trademark of E.I. DuPont de Nemours and Company. DuPont Canada Inc. is a licensee.  
BASOFIL is a registered trademark of Basofil Fibers.  
GUARDIAN is a registered trademark of Difco Performance Fabrics.

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			Gladiator® 790	
Finish			Stay Dry Plus®	
Weight			7.5 oz/yd <sup>2</sup> 254 g/m <sup>2</sup>	
Fiber Content			60% Kevlar® 40% Basofil®	
Weave			Rip Stop	
Colors				
Tests	NFPA 1971 2007ed. Outer Shell Component Test Section & Requirements		Results	
Flame Resistance initial			ASTM D6413	
Afterflame (sec)	8.2	max. 2 sec	Warp	Fill
Char length (mm)		max. 100 mm 4.0"	0	0
Observations		shall not melt or drip	14 mm 0.5"	13 mm 0.5"
After 5 washes			ASTM D6413	
Afterflame (sec)	8.2	max. 2 sec	Warp	Fill
Char length (mm)		max. 100 mm 4.0"	0	0
Observations		shall not melt or drip	14 mm 0.5"	13 mm 0.5"
Thermal shrinkage resistance (%) initial			complies	
After 5 washes			< 2	< 2
Heat resistance initial & After 5 washes			complies	
Cleaning shrinkage resistance (%)			< 3	< 2
Tear resistance N initial			158 N 35 lbf	165 N 37 lbf
Tear resistance N After 5 washes			142 N 32 lbf	139 N 31 lbf
Breaking strength (N) After 10 washes			1035 N 233 lbf	1285 N 289 lbf
Water absorption resistance(%) initial & after 5 washes			0.9%	2.6%
Component Certified by UL for:			NFPA 1971 ed 07	
			CAN/CGSB 155.1	
			NFPA 1951 ed 07	
			yes	yes
			yes	no

DuPont™  
Kevlar.

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