

DEFENDER®M

6.5 Ripstop



**TRIED AND TRUE
PERFORMANCE**

INHERENT PROTECTION

This fabric's inherent FR properties offer the dependability and protection military professionals need.

MORE COMFORT

Lenzing® FR helps with moisture management to help keep the wearer more comfortable on the job.

MADE TO LAST

Defender®M delivers resistance to wear, tear, and fading for a long and useful life in the field.

DEFENDER[®]M

6.5 Ripstop

TECHNICAL DATA*	DEFENDER [®] M 6.5 WOVEN RIPSTOP
Nominal Weight	6.5 osy (220 gsm)
Construction	Woven
Color	Solids and Camouflage
Finish	Lenzing™ FR Rayon, Aramid, Nylon
Certification(s)	NFPA 1951, NFPA 1977

Flame Resistance			
Manikin Burn ASTM F 1930	Predicted Body Burn	35% max with head, 28%max without head	
Arc Thermal Performance Value ATPV (NFPA 70E, ASTM 1959)	ATPA Rating	7.2 cal/cm ²	
	PPE Category	Category 1	
Vertical Flame ASTM 6413	Initial and 25x after wash	After flame	< 2.0 sec
		After Glow	< 15.0 sec
		Char length	< 4.5 in (150 mm)
Heat Transfer Performance NFPA 2112	Spaced	> 10	
	Contact	> 7	
Thermal Shrinkage NFPA 2112		< 10 %	

Physical Testing		
Breaking Strength ASTM D5034, (warp x fill)	Initial	110 x 100 lbf (489 x 444 N)
Tearing Strength ASTM D1424	Dry	12 x 10 lbf (53 x 44 N)
	Wet	8 x 6 lbf (35 x 26 N)
Dimensional Stability AATCC 135I	After 5 Cycles	< 3.5%

Comfort	
Air Permeability ASTM D737	> 25 ft ³ /ft ² /min

Appearance (Score 5 Best to 1 Worst)			
Color Fastness	Laundering	Shade Change	Up to 3 *
	Xenon Light Exposure AATCC 16	After 40 hours	Up to 3-4 *
	Perspiration AATCC 15	Acid	Up to 3-4 *
		Alkaline	Up to 3-4 *
	Crocking AATCC 8	Dry	Up to 3.5 *
		Wet	Up to 2 *

* Appearance is dependent on shade of fabric.

Sunlight/UV Exposure Advisory: Prolonged sunlight and UV exposure can be damaging to aramid fibers. Both natural (undyed) and dyed aramid fibers will fade or change color with exposure to sunlight or other UV sources. The thermal performance is not affected, but long term or repeated exposures will cause the fabric to gradually weaken. Garments should be stored so that they are protected from sunlight, including windows and bay doors, to maximize wear life. TenCate Protective Fabrics offers no warranties, implied or otherwise, for color change or fabric damage due to UV exposure.



TenCate Protective Fabrics
is certified according:



All mentioned data must be considered as indicative values. To the best of our knowledge all information contained herein is accurate. TenCate Protective Fabrics declines any form of liability related to the use of the attached specimen that shall be regarded as a sample only and therefore not meant to be used in any form of garment making.