



Tecasafe™ plus

High Visibility

WILDLAND

TECASAFE™ PLUS high-visibility flame resistant fabric is the latest advancement in protective fabrics for Wildlands fire-fighting garments. By combining inherent FR protection and high-visibility into a single shirt weight fabric, you can now have protection, comfort, and the durability you demand in the convenience of a single shirt. All at a lower cost than two separate garments. Tecasafe plus high visibility fabric is NFPA 1977 certified, ANSI 107 compliant, NFPA 2112 certified, NFPA 70E-Category 2 compliant and CGSB 155.20 compliant.

- **Superior Protection**—inherent flame resistant protection that stands up to the heat. This fabric has greater resistance to shrinkage after thermal exposure than FRT cotton or Nomex®; approximately 7 times less in TPP shrinkage tests. And, the fabric is more resistant to shrinkage after thermal exposure than Nomex®—approximately 7 times greater in tensile strength tests.*
- **Comfortable to wear**—soft, breathable and flexible with superior moisture management. More comfortable than Nomex®, and better evaporative cooling than FRT cotton.
- **Exceptional Durability**—good resistance to abrasion and exceptionally long lasting after wash appearance.

TECASAFE PLUS delivers piece of mind when lives are on the line. Only by TenCate SouthernMills.

**Comparison to 6.0 osy Nomex® and 7.0 osy FRT cotton.*



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FIBER BLEND: 48% PPAN FR 37%/CELLULOSIC/15% PARA-ARAMID
WEAVE: TWILL
COLOR: HI-VIS YELLOW
END USE: PROTECTIVE SHIRTS, FACE SHROUDS

PHYSICAL PROPERTIES	TECASAFE™ PLUS High-Visibility	NFPA 1977-2005 Edition Requirements
Weight (+ or - 5%) oz (sq yd) grams (sq meter)	7.0 238.0	
Thermal Protective Performance (cal/cm²) with spacer without spacer	12.3 10.9	
Flash Fire Exposure (Manikin Test) ASTM F 1930 (% body burn [2 cal/cm²/sec] @ 3 sec)	15	
ANSI / ISEA 107-2004 Standard for High Visibility Safety Apparel	Pass	
Arc Thermal Performance Value (ATPV) (cal/cm²) ASTM F 1959	8.4	
Dimensional Stability AATCC 135 (% [5x]) 120°F	<3.0	5.0 max
Tensile Strength (lbs [warp x fill]) ASTM D 5034	135 x 85	
Tearing Strength (lbs [warp x fill]) ASTM D 1424	8.0 x 7.0	5.0 min
RPP rating (cal/cm²) Initial After 5 laundering	7.8 7.8	7.0 min 7.0 min
Flame Resistance (before wash) ASTM D 6413 After Flame, sec Char Length, inches	0.0 x 0.0 <4.0 < 4.0	2.0 sec max 4.0 inches max
Flame Resistance (After 100x wash) After flame, sec Char Length, inches	0.0 x 0.0 <4.0 < 4.0	2.0 sec max 4.0 inches max
Thermal Shrinkage Resistance (%) [500°F, 5 minutes] NFPA 1977-2005	<1.0	10% max
Total Heat Loss (W/m²)	650.0	450 min
Colorfastness to Xenon Light (20 hours) AATCC 16	*3-4	
Colorfastness to Washing AATCC 61-21	*4-5	
Colorfastness to Crocking AATCC 8 Wet Dry	*3-4 *5	
Pilling Resistance ASTM D 3512 30 - 120 minutes	*5	

Ratings: *5 - Best, *3 - Acceptable, *1 - Poor"



Finishing and Non-woven areas
ISO-9001 Certified Facilities.



The Most Trusted Name In Protective Fabrics.

LAUNDERING: Garments made with TECASAFE™ PLUS fabrics are easily maintained by home or industrial laundering. For detailed laundering specifications, please contact SOUTHERN MILLS at (800) 241-8630.

SUNLIGHT/UV EXPOSURE ADVISORY: Like other natural and synthetic textile materials, Tecasafe plus may be impacted by prolonged exposure to ultra violet radiation (UV) from both sunlight and artificial light sources. Dyed fabrics may change color or fade after prolonged exposure, but UV exposure does not impact the flame resistant properties. Similar to other natural and synthetic textile materials, color change or fading is not necessarily indicative of fiber degradation. Extended exposure to UV radiation can also cause loss of mechanical properties depending on wave length, exposure time and radiation intensity. Our tests indicate that TenCate plus maintains higher tensile strength after extended UV exposure that equivalent weights of 100% aramid and 88/12 FR cotton/nylon blend fabrics. TENCATE/SOUTHERNMILLS, INC OFFERS NO WARRANTIES, IMPLIED OR OTHERWISE, FOR COLOR CHANGE OR FABRIC DAMAGE DUE TO UV EXPOSURE.

To the best of our knowledge, the information contained herein is accurate. However, SOUTHERN MILLS assumes no liability whatsoever for the accuracy or completeness of the information contained herein. Users of any substance must satisfy themselves by independent investigation that the material can be used safely. We have described certain hazards, but we cannot guarantee that these are the only hazards.

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