



Unbeatable Electric Arc and Flash Fire Protection

TenCate Tecasafe® Plus delivers superior electric arc and flash fire protection in a comfortable lightweight fabric. It performs to the NFPA 70E and NFPA 2112 standards and lasts longer than FR treated fabrics, making Tecasafe Plus a great value. Unlike other protective fabrics, it is inherently flame resistant. So, the unique FR protection comes built-in, and won't wash out or wear out.

TenCate high performance fabrics provide protection, comfort, durability and excellent value.

- Inherently flame resistant FR properties are built in, and won't wash or wear out. Exceeds NFPA 70E HRC 1, HRC 2, and NFPA 2112 performance standards.
- **Comfortable to wear** Soft and breathable. Superior moisture management because of special cellulosic fiber content.
- Exceptional durability Outstanding abrasion resistance and better strength retention after multiple commercial washes.
- Outstanding laundered appearance Fabric retains its like-new look and maintains permanent pressed appearance better than other protective fabrics.
- Excellent value Long life cycle and competitive price means lowest cost.
- Hi visibility ANSI 107 and CSA Z96 compliant for low visibility environments.

Light Blue

FIBER BLEND: FR-Modacrylic,

Lyocell, Aramid

WEIGHT (±5%): 5.8, 7.0, 8.5 oz (sq yd)

WEAVE: Twill

COLORS: 7 Standard Colors
END USE: Shirts, Pants, Coveralls



**TENCATE Tecasafe plus

Khaki	Light Blue	Gray	 Royal Blue 	Red	Yellow	 Orange¹ 	 Hi-Vis Yellow² 	Navy
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PHYSICAL PROPERT	Tecasafe® Plus 580	Tecasafe® Plus 700	Tecasafe® Plus 700-A	Tecasafe® Plus 850-A	NFPA 70E Requirement HRC 1 HRC 2		NFPA 2112 Requirement	
Weight (±5%)	oz (sq yd) grams (sq meter)	5.8 oz 197 g	7.0 oz 238 g	7.0 oz 238 g	8.5 oz 288 g			
Fiber Blend		48% fr-modacrylic 37% lyocell 15% aramid	48% fr-modacrylic 37% lyocell 15% aramid	45% fr-modacrylic 35% lyocell 20% aramid	45% fr-modacrylic 35% lyocell 20% aramid			
Standard Colors (other colors available upon request)		• • •	•••••	•	•			
Arc Thermal Performance Value (ATPV) (cal/c	6.5	9.0	10.1	10.2	5.0 min	8.0 min		
	ASTM D 6413 (inches [warp x fill]) seconds [warp x fill])	<4.0 x <4.0 0.0 x 0.0	6.0 max	6.0 max	4.0 max 2.0 max			
Thermal Protective Performance (cal/cm²)	with spacer without spacer	9.6 6.6	12.3 10.9	10.0 7.5	10.0 8.0			6.0 min 3.0 min
Flash Fire Exposure (Manikin Test) (% body burn [2 cal/cm²/sec] @ 3 sec)	ASTM F 1930	23%	15%	23.5%	19%			50.0 max
Tensile Strength (lbs [warp x fill])	ASTM D 5034	114 x 85	135 x 85	135 x 85	145 x 90			
Elmendorf Tear Strength (lbs [warp x fill])	ASTM D 1424	11 x 10	8.0 x 7.0	8.0 x 7.0	12.0 x 10.0			
Dimensional Stability (% [5x]) 120°F	AATCC 135	<3.0	<3.0	<3.0	<3.0			
Wicking 1" strip, tap water (seconds)	0.5 inches 1.0 inches 1.5 inches 2.0 inches	3.5 13.0 29.0 61.0	3.5 13.0 29.0 61.0	3.5 13.0 29.0 61.0	3.5 11.0 29.0 51.0			
Pilling Resistance 30-120 minutes	ASTM D 3512	*5	*5	*4-5	*4-5			
Thermal Shrinkage Resistance (% [500°F, 5 minutes)		<5.0	<1.0	<4.0	<3.0			10.0 max

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

- 1. Tecasafe plus Orange meets Canadian high-visibility safety standard CSA Z96-2009.
- 2. Tecasafe plus Hi-Vis Yellow meets high-visibility safety standards ANSI 107 and CSA Z96-2009.



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Laundering: Garments made with Tecasafe® Plus fabrics are easily maintained by home or industrial laundering. For detailed laundering specifications, please contact TenCate 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 exposures, but UV exposure does not impact 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 Tecasafe Plus maintains higher tensile strength after extended UV exposure than equivalent weights of 100% aramid and 88/12 FR cotton/ nylon blend fabrics. TenCate Protective Fabrics offers no warranties, implied or otherwise, for color change or fabric damage due to UV exposure.

All listed test data and ranges represent typical values. All test data and ranges are the result of multiple tests unless otherwise stated. To the best of our knowledge, the information contained herein is accurate. However, TenCate Protective Fabrics 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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