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## 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.
- High visibility ANSI 107 and CSA Z96 compliant for low visibility environments.





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PHYSICAL PROPERTIES	Tecasafe® Plus 580	Tecasafe® Plus 580-A	Tecasafe® Plus 700 <b>AFLO5</b>	Tecasafe® Plus 700-A	Te casafe® Plus 850-A <b>AFLO6</b>	NFPA 70E Requirement HRC 1 HRC 2		NFPA 2112 Requirement
FABRIC WEIGHT (±5%) oz/yd² g/m²	5.8 197	5.8 197	7.0 238	7.0 238	8.5 288			
FIBER BLEND	fr-modacrylic lyocell aramid	fr-modacrylic lyocell aramid	fr-modacrylic lyocell aramid	fr-modacrylic lyocell aramid	fr-modacrylic lyocell aramid			
STANDARD COLORS (other colors available upon request)	• • •	•	••••	•	•			
ARC THERMAL PERFORMANCE VALUE (ATPV) (cal/cm²) ASTM F 1959	6.5	5.7	9.0	10.1	10.2	5.0 min	8.0 min	
FLAME RESISTANCE  ASTM D 6413  Char Length (inches [warp x fill])  After Flame (seconds [warp x fill])	< 4.0 < 2.0	< 4.0 < 2.0	< 4.0 < 2.0	< 4.0 < 2.0	< 4.0 < 2.0	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	9.8 6.5	12.3 10.9	10.0 7.5	10.0 8.0			6.0 min 3.0 min
FLASH FIRE EXPOSURE (Manikin Test) ASTM F 1930 (% body burn [2 cal/cm²/sec] @ 3 sec)	23	32	15	23.5	19			50.0 max
TENSILE STRENGTH (lbs [warp x fill]) ASTM D 5034	114 x 85	105 x 80	135 x 85	135 x 85	145 x 90			
ELMENDORF TEAR STRENGTH (lbs [warp x fill]) ASTM D 1424	11 x 10	11 x 10	10 x 8	12 x 10	12 x 10			
DIMENSIONAL STABILITY (% [5x]) 120°F AATCC 135	≤ 3.0	≤ 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 11.5 28.0 53.0	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 (%)  ASTM D 3512  30–120 minutes	*5	*5	*5	*4-5	*4-5			
THERMAL SHRINKAGE RESISTANCE (% [500°F, 5 minutes])	≤ 3.0	3.0	≤ 3.0	< 4.0	< 3.0			10.0 max

<sup>1.</sup> Tecasafe plus Orange meets Canadian high-visibility safety standard CSA Z96-2009.

CONTACT US AT:

## **TenCate Protective Fabrics**

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

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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3/2012 Tecasafe Plus 940.1247 with sample

<sup>2.</sup> Tecasafe plus Hi-Vis Yellow meets high-visibility safety standards ANSI 107 and CSA Z96-2009.