



# Tecasafe® plus

## High Visibility

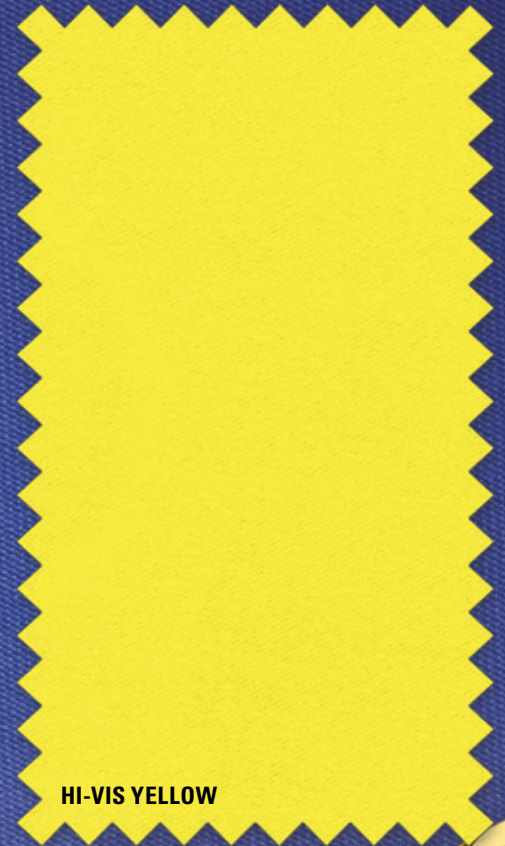
## WILDLAND

**TECASAFE® PLUS** high-visibility flame resistant fabric is the latest advancement in protective fabrics for Wildlands firefighting 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 strength loss 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 moisture management than FRT cotton.
- **Exceptional Durability** – good resistance to abrasion and exceptionally long lasting after wash appearance comparable to Nomex®.
- **Best Value** – Significantly outlast 88/12 treated cotton, approximately half the price of Nomex® (weight-for-weight) meaning Tecasafe® Plus is the best overall ownership for Firefighters.
- **Inherently Flame Resistant** – FR properties are built in, and won't wash or wear out. Inherent protection means peace of mind.

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

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



HI-VIS YELLOW



[www.tencateprotectivefabrics.com](http://www.tencateprotectivefabrics.com)

# Tecasafe<sup>®</sup> plus

## High Visibility

PHYSICAL PROPERTIES		Tecasafe <sup>®</sup> Plus High-Visibility	NFPA 1977: 2011 Edition Requirements
<b>FABRIC WEIGHT</b> (oz/yd <sup>2</sup> ), (grams/m <sup>2</sup> )		7.0 oz, 238.0 gsm	
<b>FABRIC WEAVE</b>		Twill	
<b>FACE CLOTH FIBER BLEND</b>		PPAN FR, CELLULOSIC, PARA-ARAMID	
<b>THERMAL PROTECTIVE PERFORMANCE</b> (cal/cm <sup>2</sup> )	with spacer without spacer	12.3 10.9	
<b>FLASH FIRE EXPOSURE</b> (Manikin Test)	<b>ASTM F 1930</b> % body burn [2 cal/cm <sup>2</sup> /sec] @ 3 sec	15	
<b>ANSI / ISEA 107-2004</b>	Standard for High Visibility Safety Apparel	Pass	
<b>DIMENSIONAL STABILITY</b>	<b>AATCC 135</b> (% [5x]) 120°F	<3.0	5.0 max
<b>TENSILE STRENGTH</b> (lbs [warp x fill])	<b>ASTM D 5034</b>	135 x 85	
<b>ELMENDORF TEAR</b> (lbs [warp x fill])	<b>ASTM D 1424</b>	8.0 x 7.0	5.0 min
<b>RPP RATING</b> (cal/cm <sup>2</sup> )	After 5 launderings	9.7	7.0 min
<b>FLAME RESISTANCE</b> (before wash)	<b>ASTM D 6413</b> After Flame, sec Char Length, inches	0.0 x 0.0 <4.0 < 4.0	2.0 sec max 4.0 inches max
<b>FLAME RESISTANCE</b> (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
<b>THERMAL SHRINKAGE RESISTANCE</b> (% 500°F, 5 minutes)	<b>NFPA 1977-2005</b>	<1.0	10% max
<b>TOTAL HEAT LOSS</b> (W/m <sup>2</sup> )		664	450 min
<b>COLORFASTNESS TO XENON LIGHT</b> (20 hours)	<b>AATCC 16</b>	*3-4	
<b>COLORFASTNESS TO WASHING</b>	<b>AATCC 61-21</b>	*4-5	
<b>COLORFASTNESS TO CROCKING</b>	<b>AATCC 8 - Wet</b> <b>AATCC 8 - Dry</b>	*3-4 *5	
<b>PILLING RESISTANCE</b>	<b>ASTM D 3512 - 30 - 120 minutes</b>	*5	

## TenCate Protective Fabrics

6501 Mall Blvd.  
P.O. Box 289  
Union City, GA 30291

PH: 1.800.241.8630  
FX: 1.770.969.6846  
tencateprotectivefabrics.com



PROUD SPONSOR OF:



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

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.

©2011 TenCate Protective Fabrics. TenCate is a trademark of Royal Ten Cate. Caldura is a registered trademark of TenCate Protective Fabrics. Wickwell is a trademark of TenCate Protective Fabrics. TenCate Protective Fabrics. DuPont, Kevlar, Nomex, and E89 are trademarks or registered trademarks of DuPont or its affiliates.  
11/2011 940-1256 without sample/940-1257 with sample