

 TENCATE™

SOUTHERNMILLS™

The Most Trusted Name In Protective Fabrics.



COAXSHEER

REFINING OUTDOOR GEAR

Tecasafe Plus Overview

- Blend: 48% Modacrylic, 37% Lyocell, 15% Aramid
- Weave: Twill
- Weight Options:
 - 7 oz/ yd² - shirt weight
 - 8.5 oz/ yd² - pant weight
 - *NEW*- 5.8 oz/ yd²
- Standard colors: yellow, hi- vis yellow, red, royal blue, navy, light blue, gray (spruce is available as well).
- Unprecedented levels of combined comfort, durability, and thermal performance

Wildlands and Industrial Markets- Comparison

- **Wildlands**
 - NFPA 1977 required testing: THL, RPP, Vertical Flammability, Tear Resistance, Laundry Shrinkage, Thermal Shrinkage
 - Wear- critical market
 - Single layer application, acts as daily work uniform
 - Hot, rugged environments, extreme physical exertion
 - Infrequent exposure to open flame, but garment integrity critical if exposed
- **Industrial**
 - NFPA 2112 required testing: TPP, Manikin Test, Vertical Flammability, Thermal Shrinkage
 - Cost- critical market (durability)
 - Single layer application, acts as daily work uniform
 - Hot environments, manual labor
 - Infrequent exposure to open flame, but garment integrity critical if exposed

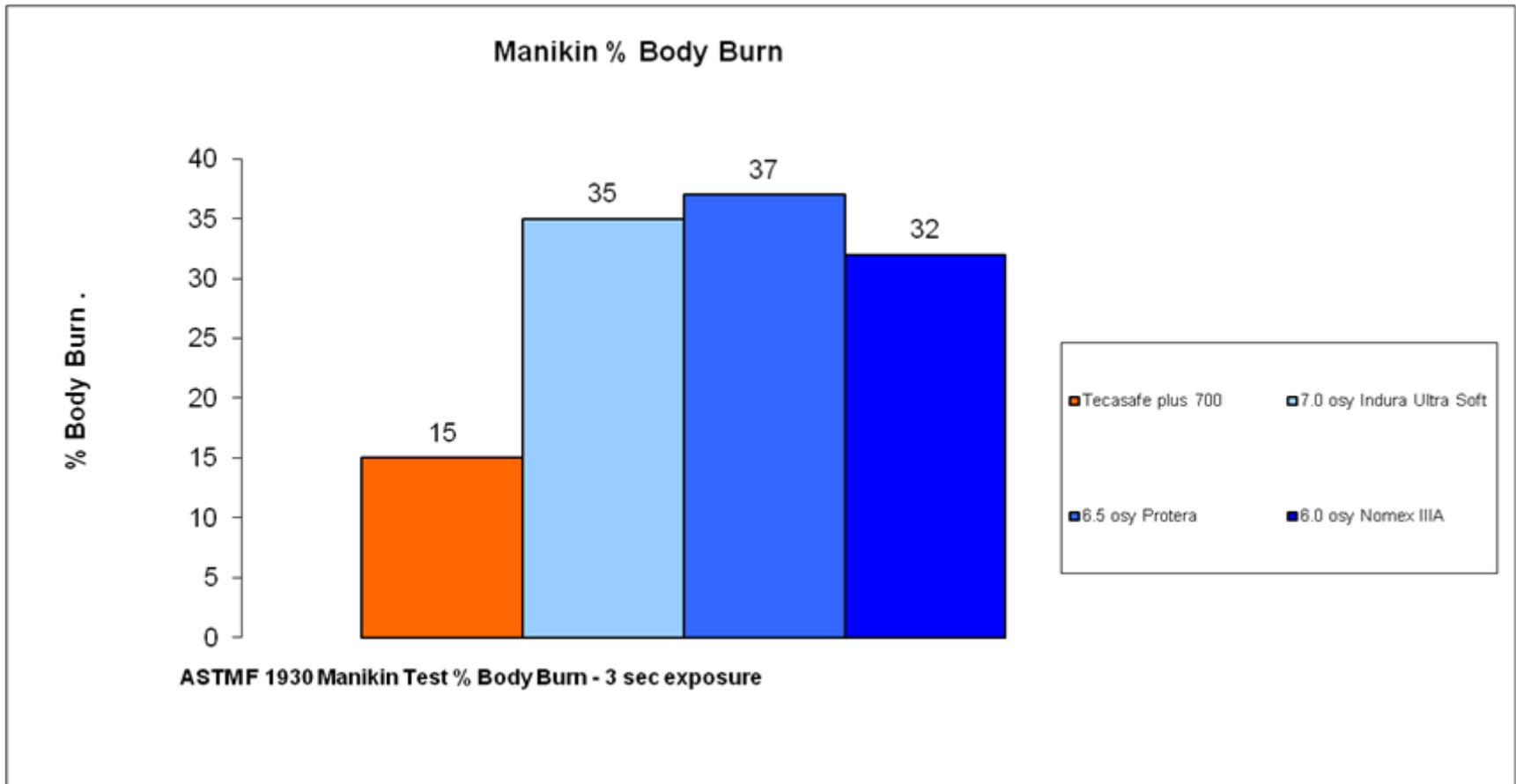
Tecasafe Plus™ Fiber Blend

- 48% Modacrylic
 - Good abrasion resistance – used in upholstery fabrics
 - Very receptive to dyeing
- 37% High- Strength Lyocell
 - Cellulosic fiber – like cotton or rayon, but stronger
 - Absorbs 3 times its weight in water
- 15% Para-aramid
 - Very strong fiber – used in ballistic vests, tires, boat hulls
 - Low thermal shrinkage – resists high temperatures

Tecasafe Plus™ – Protection Advantages

- Inherently FR
 - Protection can't be washed out
 - Doesn't melt, drip or stick
- Very low TPP shrinkage
- Very low burn injury results when tested on Pyroman.
- Excellent fabric integrity after thermal exposure

Tecasafe Plus™ – Pyroman Burn Injury



Tecasafe Plus™ Certifications

- NFPA 1977 Certified – UL Listed
- NFPA 1975 Certified – UL Listed
- NFPA 2112 Certified – UL Listed
- NFPA 70E Hazard Risk Category 2 compliant
- EN 531 certified by BTTG
- ANSI 107 Certified shade

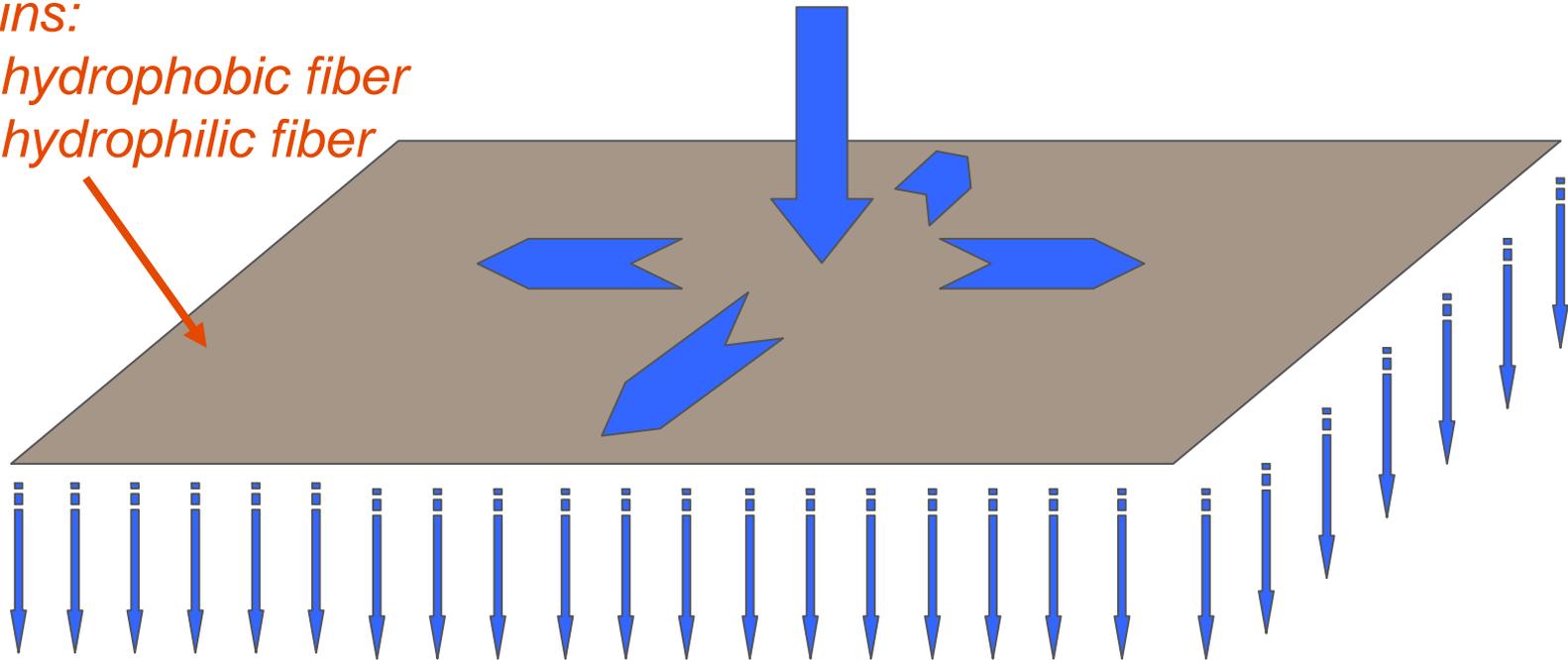
Tecasafe Plus™ Comfort Advantages

- Soft hand – better than conventional FR fabrics
- Comfortable fabric
 - 37% cellulosic fiber
 - Excellent feedback from user wear trials
- Excellent moisture management
 - Hydrophilic/Hydrophobic fiber blend: excellent wicking without excessive weight gain
 - Moisture management from fiber blend not finish: will not wash out

Tecasafe Plus: Evaporative cooling

Perspiration from
sub-fabric microclimate

*Contains:
c. 1/2 hydrophobic fiber
c. 1/3 hydrophilic fiber*



Evaporation to Environment = Cooling

Tecasafe plus™ Durability Advantages

- Excellent abrasion resistance
- Better resistance to seam abrasion in laundering
- Excellent resistance to pilling
- Good colorfastness
- Excellent retained strength after thermal exposure

Tecasafe Plus™ – Other Advantages

- High Visibility ANSI 107 Shade Available
- Excellent Value
 - Price approx. 10- 20% lower than Nomex
 - Protection equivalent or better than aramid fabrics
- Optimal balance between comfort and protection

Tecasafe™ Plus Lab Sample Review

- Taber Abrasion
- TPP Shrinkage
- TPP Exposure (10 sec)
- Xenon Exposure
- Wicking

