



Advance ultra®

FIBER BLEND: 60% KEVLAR®
20% NOMEX®
20% PBO
WEIGHT: 7.5 oz (sq yd)
WEAVE: Rip Stop
COLOR: Yellow, Light Gold,
Dark Gold
FINISH: SUPER SHELLTITE™
END USE: Turnout Gear Outer Shells

Which outer shell performance requirement is most important? Strength, Heat Resistance, Heat Insulation, Abrasion Resistance or Heat Stress? When you factor in the cost of the fabric, ADVANCE ULTRA® is always your best value. Its unique construction, engineered from a blend with DuPont™ KEVLAR® brand fiber, provides superior strength, durability and thermal protection that stands up to the heat.

- **Better strength** (tensile and tear) after thermal exposure than any competitive fabric.
- **Better abrasion resistance** than any competitive fabric.
- **Excellent thermal protection.**
- **Maximum Protection, Maximum Value.**

ADVANCE ULTRA delivers peace of mind when lives are on the line. Only by TenCate SouthernMills.

PHYSICAL PROPERTIES		ADVANCE ULTRA®	NFPA 1971-2007 Edition Requirements
Trapezoidal Tear Strength (lbs) Initial (warp x fill) After 5 launderings (warp x fill)	ASTM D5587*	45 x 45 40 x 35	22.0 min
Tensile Strength (lbs) Initial (warp x fill) After 10 launderings (warp x fill)	ASTM D5034	440 x 420 320 x 310	140.0 min
Thermal Protective Performance (cal/cm²) TPP with Crosstech®, CALDURA® SILVER NP	NFPA 1971-2007	42 - 45	35.0 min
Tensile Strength (lbs) after 17.5-second TPP Exposure (2.0 cal/cm²•sec) (warp x fill)		110 x 100	
Water Absorption Resistance (%) Initial After 5 launderings	AATCC 42	< 1.0 < 2.5	30.0 max
Vertical Flammability Char Length in inches (warp x fill) (Initial) Char Length in inches (warp x fill) (After 5 launderings) After Flame in seconds (warp x fill)	ASTM D6413	0.1 x 0.1 0.1 x 0.1 0.0 x 0.0	4.0 max 2.0 max
Laundry Shrinkage (%) After 5 launderings (cotton sturdy cycle) (warp x fill)	AATCC 135	< 5.0 x < 5.0	5.0 max
Thermal Shrinkage (%) 500°F at 5 minutes After 5 launderings	NFPA 1971-2007	< 1.0 < 1.0	10.0 max

*NFPA 1971-2007 specifies Trapezoidal Tear Strength measurement according to ASTM D5587 not allowing for specimen slippage.



The Most Trusted Name In Protective Fabrics.

SUNLIGHT/UV EXPOSURE ADVISORY: Prolonged sunlight and UV exposure can be damaging to aramid and PBO fibers. Both natural (undyed) and dyed aramid and PBO fibers will fade or change color with exposure to sunlight or other UV sources. The thermal performance is not affected, but long term or repeated exposures will cause the fabric to gradually weaken. Garments should be stored so that they are protected from sunlight, including windows and bay doors, to maximize wear life. SOUTHERN MILLS 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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TENCATE

Advance ultra®

EMERGENCY RESPONSE



Yellow

Light Gold

Dark Gold