

# Millenia light™

PHYSICAL PROPERTIES		MILLENNIA LIGHT™	NFPA 1977-2005 Edition Requirements	NFPA 1951-2007 Edition Requirements
<b>Dimensional Stability, after 5X</b>	<b>AATCC 135 (cotton sturdy)</b>			
warp		<5	5.0 max	5.0 max
fill		<5	5.0 max	5.0 max
<b>Tearing Strength, lbs (warp x fill)</b>	<b>ASTM D 1424</b>	25 x 20	5 lb min	
<b>RPP rating, cal/cm<sup>2</sup></b>	<b>ASTM F 1939</b>			
initial		8	7 min	8 min
After 5 launderings		8.5	7 min	8 min
<b>Flame Resistance (warp x fill)</b>	<b>ASTM D 6413</b>			
After flame, sec		0 x 0	2.0 max	2.0 max
Char Length, inches		0.1 x 0.1	4.0 max	4.0 max
<b>Flame Resistance (warp x fill) after 100 launderings</b>				
After flame, sec		0 x 0	2.0 max	2.0 max
Char Length, inches		0.3 x 0.3	4.0 max	4.0 max
<b>Thermal Shrinkage, % (warp x fill)</b>	<b>NFPA 1977-2005</b>	0.5 x 0.5	10% max	10% max
<b>Total Heat Loss, W/m<sup>2</sup></b>	<b>ASTM F 1868</b>	>650	450 min	450 min
<b>Trapezoidal Tear Strength (lbs)</b>	<b>ASTM D 5587</b>			
After 5 launderings (warp x fill)		30 x 35		6.75 min
<b>Tensile Strength (lbs)</b>	<b>ASTM D 5034</b>			
After 10 launderings (warp x fill)		335 x 235		90 min
<b>Thermal Protective Performance (cal/cm<sup>2</sup>)</b>	<b>NFPA 1971-2007</b>			
TPP with Crosstech® Type 2c, CALDURA® SILVER NP		35 - 37		10.0 min
<b>Thermal Protective Performance (cal/cm<sup>2</sup>)</b>	<b>NFPA 1951-2007</b>			
TPP with Crosstech® Type 2c, (After 10 launderings)		11 - 12		10.0 min
<b>Vertical Flammability</b>	<b>ASTM D 6413</b>			
Char Length in inches (warp x fill) (After 10 launderings)		0.2 x 0.2		4.0 max
After Flame in seconds (warp x fill) (Initial)		0.0 x 0.0		2.0 max
<b>Laundry Shrinkage (%)</b>	<b>AATCC 135</b>			
After 5 launderings (cotton sturdy cycle) (warp x fill)		< 2.5 x < 2.0		5.0 max
<b>Thermal Shrinkage (%)</b>	<b>NFPA 1971-2007</b>			
After 10 launderings		< 0.5		10.0 max
<b>Abrasion Resistance Test One (lbs)</b>	<b>ASTM D 3885/D 5035</b>			
Breaking strength after 10 launderings and 500 stool flex cycles (warp x fill)		180 x 150		50.0 min
<b>Water Repellency</b>	<b>AATCC 22</b>			
After 10 launderings		> 80.0		80.0 min

**FIBER BLEND: 60% KEVLAR® / 40% PBO**  
**WEIGHT: 5.3 oz (sq yd)**  
**WEAVE: Rip Stop**  
**COLOR: Natural**  
**FINISH: SUPER SHELLTITE™**  
**END USE: Wildland / USAR Firefigther Turnout Gear Outer Shell**



## SOUTHERNMILLS™

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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# Millenia light™

WILDLAND

MILLENIA LIGHT™ is the lightest turnout gear outer shell fabric available for Wildland and Urban Search & Rescue (USAR) firefighting. Clothing made from MILLENIA LIGHT reduces the weight on your back to keep you going longer. Its special construction, engineered from a blend of DuPont™ KEVLAR® brand fibers, provides high strength, durability and thermal protection. 30% lighter than standard turnout gear outer shell fabric, yet as tough as any competitive product in standing up to the thermal hazards, long hours, heavy labor, and rugged terrain of real-world fire fighting.

- **Lightest outer shell fabric on the market** – Specifically engineered for Wildland and Urban Search and Rescue (USAR) firefighting.
- **Certified to NFPA 1977** – Wildland firefighting turnout gear standard.
- **Certified to NFPA 1951** – Urban Search and Rescue (USAR) turnout gear standard.
- **Active shell** – light weight and flexible, reducing heat stress.
- **Tough** – Superb durability, excellent resistance to flame.
- **Exceptional strength after thermal exposure.**

MILLENIA LIGHT delivers peace of mind when lives are on the line. Only by TenCate SouthernMills.

