




30 Years of Reliable, Affordable Protection

TenCate Defender™ proves that good protection doesn't have to carry a high price tag. This classic Nomex® outer shell fabric continues to build on its strong reputation of reliability by protecting firefighters against extreme temperatures and grueling conditions.

- **Proven economical protection** – Features the proven dependability of Nomex®. Inherently flame resistant, exhibits low flammability and high strength. Will not melt, drip or char at temperatures up to 700°F.
- **Quality at an unbeatable price** – The most economical outer shell fabric on the market. Proven quality, thermal stability and affordable protection.
- **Outstanding selection** of colors, weights and weaves.

TenCate Defender™ delivers peace of mind when lives are on the line.
Nothing Beats a TenCate Protective Fabric



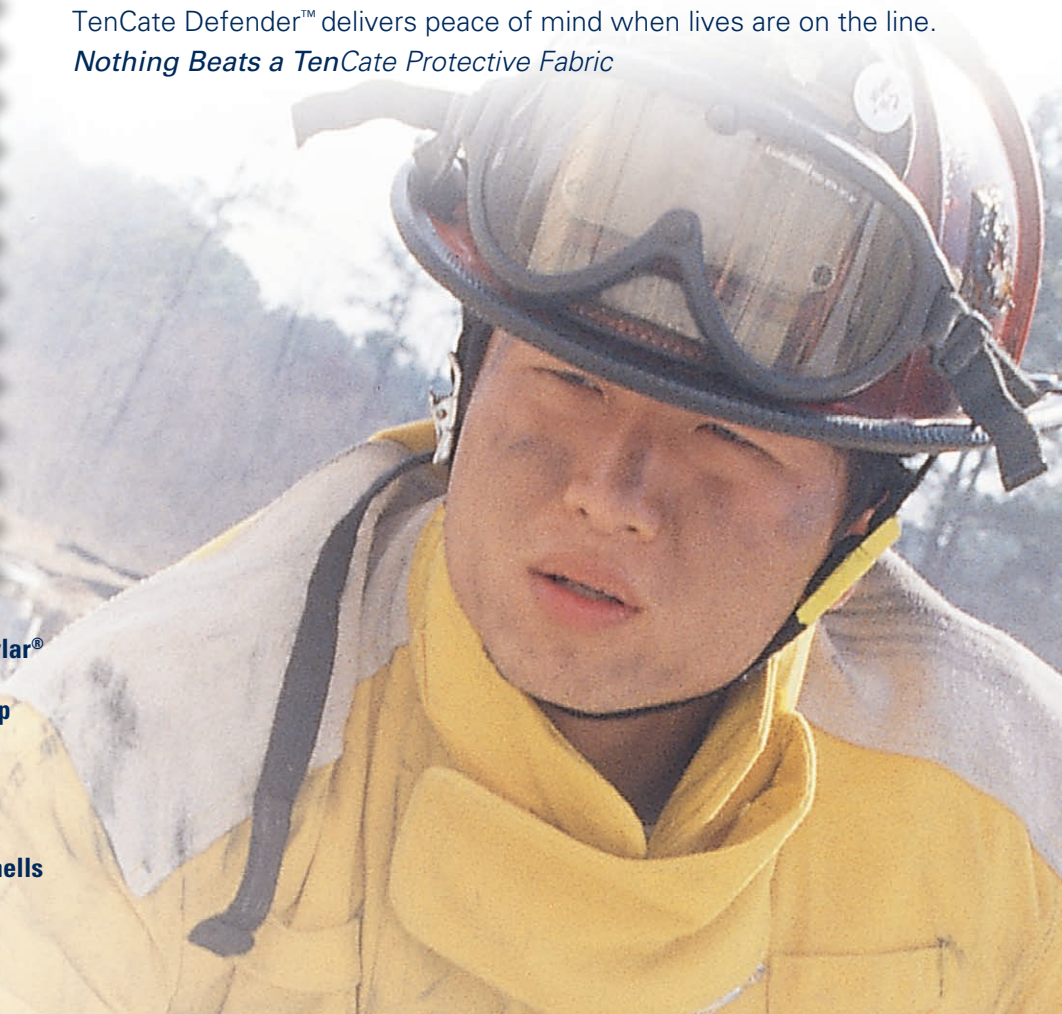
FIBER BLEND: 93% Nomex® / 5% Kevlar®
2% P-140 (anti-static)

WEIGHT/WEAVE (±5%): 6.0 oz (sq yd) - Rip Stop
7.5 oz (sq yd) - Plain

COLORS: Black, Yellow, Royal,
Fire Service Navy

FINISH: Shelltite™

END USE: Turnout Gear Outer Shells





PHYSICAL PROPERTIES		TenCate Defender™ 600RS	TenCate Defender™ 750	NFPA 1971 Requirements
Trapezoidal Tear Strength (lbs) Initial (warp x fill) After 5 launderings (warp x fill)	ASTM D 5587*	35 x 30 30 x 25	55 x 35 50 x 30	22.0 min
Tensile Strength (lbs) Initial (warp x fill) After 10 launderings (warp x fill)	ASTM D 5034	200 x 180 190 x 180	260 x 230 250 x 220	140.0 min
Water Absorption Resistance (%) Initial After 5 launderings	AATCC 42	< 3.0 < 10.0	< 3.0 < 15.0	30.0 max
Flame Resistance 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 D 6413	3.0 x 3.0 3.0 x 3.0 0.0 x 0.0	2.5 x 2.5 2.5 x 2.5 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	< 4.0 x < 4.0	5.0 max
Heat and Thermal Shrinkage (%) 500°F at 5 minutes (warp x fill) After 5 launderings (warp x fill)	NFPA 1971	< 2.0 < 2.0	< 2.0 < 2.0	10.0 max

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



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Sunlight/UV Exposure Advisory: Prolonged sunlight and UV exposure can be damaging to aramid fibers. Both natural (undyed) and dyed aramid 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. TenCate Protective Fabrics 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, 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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Finishing and Non-woven are ISO-9001 Certified Facilities.