

TENCATE
Tuffweld®



Welding protection at the lowest cost per wear

TenCate Tuffweld® provides rugged, inherently flame-resistant protection at the lowest cost per wear of competitive welding garment fabrics. It surpasses FR treated cotton in tensile strength, tear strength, abrasion resistance and moisture wicking. It also has a higher resistance to pin holes and never needs ironing.

- **Inherently flame resistant** – FR protection never wears or washes out.
- **Superior strength and protection** – Engineered to provide outstanding strength and protection from heat and flame, arc radiation, and burns caused by sparks and weld spatter.
- **Exceptional softness and comfort** – FR rayon provides excellent wicking and breathability, keeping you cooler and drier.
- **Excellent value** – Long lasting, durable protection. Outlasts welding garments made of FR treated cotton.

TenCate Tuffweld® delivers peace of mind when lives are on the line.

Nothing Beats a TenCate Protective Fabric.

Brown

FIBER BLEND: 60% FR Rayon
 40% Para-Aramid

WEIGHT (±5%): 8.5, 10.0 oz (sq yd)

WEAVE: Twill

COLOR: Brown, Natural

END USE: Shirts, Pants, Capes,
 Jackets, Aprons, Coveralls



PHYSICAL PROPERTIES		Tuffweld® 850	Tuffweld® 1000
Weight (+ or - 5%)	oz (sq yd)	8.5	10.3
	grams (sq meter)	289	350
Weave		Twill	Twill
Color Availability (Other colors available upon request)		Brown, Natural	Brown, Natural
Construction (warp x fill)		76 x 47	76 x 43
Flame Resistance	ASTM 6413-99		
Char Length (inches [warp x fill])		0.8 x 0.8	0.7 x 0.7
After Flame (seconds [warp x fill])		0.0 x 0.0	0.0 x 0.0
ARC Thermal Performance	ASTM 1959		
ATPV(cal/cm ²)		6.3–6.7	6.6–7.0
Tensile Strength (lbs [warp x fill])	ASTM 1682		
		210 x 130	250 x 210
Elmendorf Tear Strength (lbs [warp x fill])	ASTM 1424		
		15 x 15	16 x 20
Dimensional Stability	AATCC 135		
140°F Industrial Wash, 160°F Max Stack Dry [5x]		<5.0	<5.0
Washing Colorfastness	AATC 61(2A)		
		*5	*5
Wicking (distance in seconds) (1" strip, tap water)			
0.5 inches		<10	<10
1.0 inches		<30	<30
1.5 inches		<60	<60
2.0 inches		<200	<200
Theoretical Moisture Regain (%)		8.4	8.4
Pilling Resistance	ASTM 3512		
30 minutes		2	5
60 minutes		3	4
90 minutes		4	3
120 minutes		5	4

*Ratings: 5 - Best, 3 - Acceptable, 1 - Poor