

TUFFWELD®



ENGINEERED FOR WELDERS

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Designed to be more comfortable and easier to wear than leather, Tuffweld also delivers a better value proposition and longer wear life. Stands up to pinholes and slag and feels good on the job.

INHERENTLY HEAT AND FLAME RESISTANT

Inherent FR protection is built right into the fabric. The FR properties will last forever and cannot be removed by extended wear or repeated washing.

MULTI-FIBER PERFORMANCE

A multi-fiber construction makes Tuffweld™ less stiff and more flexible – even after daily wear and repeated launderings.

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TECHNICAL DATA*	TUFFWELD® 850
Nominal Weight	8.5 osy (288 gsm)
Construction	Woven
Color	Brown
Fiber Content	Aramid, Rayon
Certification(s)	ASTM 1506, NFPA 2112

Flame Resistance			
Manikin Burn NFPA 2112	Predicted Body Burn		Pass
Arc Thermal Performance Value NFPA 70E, ASTM 1959	Arc Rating		9.2 cal/cm ²
	PPE Category		Category 2
Vertical Flame ASTM 6413, NFPA 2112	Initial and After 100x Wash	After flame	< 2.0 sec
		Char length	< 4.0 in (100 mm)
Thermal Shrinkage NFPA 2112	Initial and 3x After Wash		< 10%

Physical Testing		
Tensile Strength ASTM D5034	Initial (warp x fill)	220 x 135 lbf (975 x 600 N)
Elmendorf Tear ASTM D1424, warp x fill		20 x 16 lbf (90 x 70 N)
Dimensional Stability AATCC 135		< 3 %
Seam Strength ASTM D434, Force at 0.25 in slippage		45 lbf (200 N)

Comfort	
Air Permeability ASTM D737	25 ft ³ /ft ² /min

Appearance *Score 5 (best) to 1 (Worst)			
Color Fastness	Laundrying AATCC 61 2A	Shade Change	Minimum 4 *
	Xenon Light Exposure AATCC 16	After 40 AFU	Minimum 2 - 3 *
	Pilling Resistance ASTM D3512	Initial: 60 min	Minimum 2 *

* All values subject to final certification and specification. Tested on specific colors. Appearance is dependent on shade of fabric.

AVAILABLE COLORS	OPTIONAL COLORS
Brown	Additional color options may be available. Please contact TenCate Protective Fabrics for more information. Color shades and textures may vary. Please contact your sales representative for swatch samples.



TenCate Protective Fabrics is certified according:



All mentioned data must be considered as indicative values. To the best of our knowledge all information contained herein is accurate. TenCate Protective Fabrics declines any form of liability related to the use of the attached specimen that shall be regarded as a sample only and therefore not meant to be used in any form of garment making.