

OMNIWEAVE™



**TIME-TESTED
DURABILITY**

Omniweave™ 450

TRUSTED NOMEX® CONSTRUCTION

Trusted for over 50 years, Nomex® fiber construction offers wearers leading inherent FR protection against heat and flame.

ADAPTIVE PROTECTION

Tough enough for rugged environments, Omniweave™ stands up to any challenge you may face.

WASH AND WEAR RESILIENCE

Inherent FR protection means long-lasting protection that will never wash out or wear away.

OMNIWEAVE™

TECHNICAL DATA*	OMNIWEAVE™ 450
Nominal Weight	4.5 osy (153 gsm)
Construction	Woven
Color	Red, Orange, Yellow, Medium Blue, Dark Navy, F.S. Navy, Royal, Spruce, Gray and Black
Fiber Content	Aramid, Anti-Stat
Certification(s)	ASTM 1506, NFPA 1975, NFPA 2112, CGSB 155.20

Thermal Testing (Flame Resistance)

Manikin Burn CGSB 155.20, NFPA 2112	Predicted Body Burn	Pass
Arc Thermal Performance Value NFPA 70E, ASTM 1959	ATPV Rating	4.8 cal/cm ²
	PPE Category	Category 1
Vertical Flame ASTM 6413	Initial and 100x after 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, warp x fill	182 x 119 lbf (810 x 530 N)
Elmendorf Tear ASTM D1424, warp x fill	11.5 x 7 lbf (50 x 30 N)
Dimensional Stability AATCC 135	< 3.0 %
Seam Strength ASTM D434, Force at 0.25 in slippage	40 lbf (179 N)

Appearance *Score 5 (best) to 1 (Worst)

Color Fastness Laundering AATCC 61 2A, AATCC 61 3A	Shade Change	Up to 4 *
Xenon Light Exposure AATCC 16	After 20 hours	Up to 4-5 (20 hours) — Up to 4 (40 hours) — Up to 3-4 (60 hours) *
Pilling Resistance ASTM D3512	Initial: 60 min	Up to 4 *
Crocking AATCC 8	Wet	Up to 4.5 *
	Dry	Up to 5 *

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

AVAILABLE COLORS

Red	Orange	Yellow	Medium Blue	Navy Blue
FS Navy	Royal	Spruce	Gray	Black

OPTIONAL COLORS

TenCate Protective Fabrics, the world's textile dyeing expert, can produce almost every color with a minimum quantity of 3000 yards. Smaller quantities can be ordered, subject to a surcharge. For more information, please contact TenCate Protective Fabrics.



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.