

# | OMNIWEAVE™



## TIME-TESTED DURABILITY

**OMNIWEAVE™**  
4.5 osy (155 gsm)

### **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 (155 gsm)
Construction		Plain Weave
Colors		Red, Orange, Yellow, Light Blue, Royal Blue, Navy Blue, Spruce Green, Gray, Black
Fiber Content		Meta-Aramid/Para-Aramid/Antistat
Finish		Wickwell™ Plus
Certification/Compliance		NFPA 2112, ASTM F1506, NFPA 70E
<b>Flame Resistance</b>		
Manikin Burn Predicted Body Burn	NFPA 2112	Pass
Arc Thermal Performance Value or ATPV ATPV Rating PPE Category	NFPA 70E, ASTM 1959	4.8 cal/cm <sup>2</sup> Category 1
Vertical Flame Initial: After flame Initial: Char Length 100x After Wash: After flame 100x After Wash: Char Length	ASTM 6413, NFPA 2112	< 2.0 sec < 4.0 in (100 mm) < 2.0 sec < 4.0 in (100 mm)
Thermal Shrinkage Initial 3x After Wash	NFPA 2112	< 10% < 10%
<b>Strength/Durability</b>		
Tensile Strength Initial (warp x fill)	ASTM D5043	810 x 530 N
Elmendorf Tear (warp x fill)	ASTM D1424	50 x 30 N
Laundry Shrinkage	AATCC 135	< 3%
Seam Stability	ASTM D434	179 N
<b>Appearance</b>		
Color Fastness (Score 5: Best to 1: Worst) Laundering Shade Change Laundering Shade Change Croaking Dry Wet	AATCC 61 2A AATCC 61 3A AATCC 8	Up to 4* Up to 4* Up to 5* Up to 4.5*
Xenon Light Exposure (Score 5: Best to 1: Worst) After 20 hours After 40 hours After 60 hours	AATCC 16	Up to 4-5* Up to 4* Up to 3-4*
Pilling Resistance (Score 5: Best to 1: Worst) Initial: 60 minutes	ASTM D3512	Up to 4*

\* Appearance depends on shade of fabric.  
Copyright © 2019 TenCate Protective Fabrics

STANDARD COLOS					OPTIONAL COLORS
Light Blue	Spruce Green	Navy Blue	Royal Blue	Black	TenCate, the world's textile dyeing expert, can produce almost every colour with a minimum quantity of 3000 metres. Smaller quantities can be ordered, subject to a surcharge. For more information about colour-combination requirements, as well as any other information you may need, please contact TenCate.
Orange	Red	Grey	Yellow		

Any listed data or claims represent typical values. Results from multiple tests unless otherwise stated. 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 an independent investigation that the material can be used safely. TenCate Protective Fabrics describes only certain hazards but cannot guarantee these are the only hazards. Content within is subject to change at the sole discretion of TenCate Protective Fabrics. Any images, photography, swatch illustrations or color descriptions appear only as representative and are not intended for color shade matching or the exact size or shape of a weave or knit. Any fabric weights listed are nominal. If any of these matters are of a concern, please speak with your TenCate Protective Fabrics representative.