

The



Guarantee

TenCate Protective Fabrics guarantees that every shipment and every fiber woven into

OMNIWEAVE™

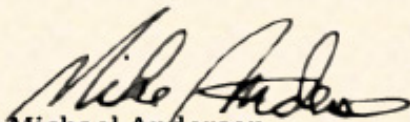
contains 100% DuPont Nomex® IIIA.

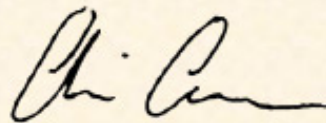
TenCate partners with DuPont, the only direct source of genuine Nomex® IIIA fiber. TenCate is the world's largest and longest-running producer of fabrics using DuPont Nomex®. TenCate never substitutes.



With a patented wicking finish added to the reliable flame-resistant properties of DuPont Nomex® IIIA, TenCate Omniweave™ offers excellent protection and unmatched comfort.




Michael Anderson
Vice President of Manufacturing
TenCate Protective Fabrics


Chris Corner
Vice President, International
TenCate Protective Fabrics



Omniweave™

FEATURING 100% DuPONT™ NOMEMX®

PROPERTIES		450	600	680	750
Nominal Weight		4.5 osy (155 gsm)	6.0 osy (205 gsm)	6.8 osy (230 gsm)	7.5 osy (255 gsm)
Fiber Blend		DuPont™ Nomex®	DuPont™ Nomex®	DuPont™ Nomex®	DuPont™ Nomex®
Colors Available	<i>Other colors available upon request</i>	Red, Orange, Yellow, Lt Blue, Royal Blue, Navy, Spruce, Gray & Black	Red, Orange, Yellow, Lt Blue, Royal Blue, Navy, Spruce, Gray & Black	Red, Orange, Yellow, Lt Blue, Royal Blue, Navy, Spruce, Gray & Black	Red, Orange, Yellow, Lt Blue, Royal Blue, Navy, Spruce, Gray & Black
Made in America		Yes	Yes	Yes	Yes
PROTECTION		450	600	680	750
Electric Arc Rating	<small>ASTM 1958</small>	4.6 cal/cm ² - 4.8 cal/cm ²	5.7 cal/cm ² - 5.9 cal/cm ²	6.5 cal/cm ² - 7.0 cal/cm ²	6.6 cal/cm ² - 6.9 cal/cm ²
Personal Protective Equipment (PPE)	<small>NFPA 70E</small>	PPE 1	PPE 1	PPE 1	PPE 1
Thermal Protective Performance (TPP)	With Spacer Without Spacer	10.5 cal/cm ² 5.5 cal/cm ²	12.0 cal/cm ² 6.0 cal/cm ²	14.0 cal/cm ² 7.0 cal/cm ²	14.0 cal/cm ² 7.5 cal/cm ²
<small>NFPA 2112 Standard: With 6.0 Minimum, Without 3.0 Minimum</small>					
Flame Resistance	Char Length After Flame	< 4.0 in (< 10 cm) < 2 sec	< 4.0 in (< 10 cm) < 2 sec	< 4.0 in (< 10 cm) < 2 sec	< 4.0 in (< 10 cm) < 2 sec
<small>ASTM 6413, NFPA 2112 Standard: 4.0 in Maximum, 2 sec Maximum</small>					
Thermal Shrinkage (Before Laundering)		3.0%	3.0%	3.0%	3.0%
<small>NFPA 2112 Standard: 10% Max</small>					
FABRIC STRENGTH		450	600	680	750
Tensile Strength		170 lbf x 100 lbf 755 N x 455 N	240 lbf x 150 lbf 1,070 N x 670 N	260 lbf x 180 lbf 1,155 N x 800 N	250 lbf x 230 lbf 1,110 N x 1,025 N
<small>ASTM D 5034</small>					
Elmendorf Tear Strength		10 lbf x 7 lbf 45 N x 30 N	12 lbf x 8 lbf 55 N x 35 N	12 lbf x 8 lbf 55 N x 35 N	14 lbf x 12 lbf 60 N x 55 N
<small>ASTM D 1424</small>					
Dimensional Stability	<small>AATCC 135</small>	≤ 3.0%	≤ 3.0%	≤ 3.0%	≤ 3.0%
LAUNDERING TESTING		450	600	680	750
Piling Resistance	30 minutes 60 minutes 90 minutes 120 minutes	4 5 5 5	4 5 5 5	4 5 5 5	3 4 5 5
<small>ASTM 3512, Ratings: 5 Best, 3 Acceptable, 1 Poor</small>					
Wicking	0.5 inch 1.0 inch 1.5 inch 2.0 inch	3.0 sec 13.0 sec 34.0 sec 62.0 sec	3.0 sec 10.0 sec 27.0 sec 58.0 sec	6.0 sec 14.0 sec 37.0 sec 79.0 sec	3.0 sec 12.0 sec 34.0 sec 70.0 sec
Washing Colorfastness (After 25 Launderings)	<small>140°F (60° C) Industrial Wash, 160°F Max Stack Dry</small>	4	4	4	4
Air Permeability		210 ft ³ /ft ² /min	80 ft ³ /ft ² /min	25 ft ³ /ft ² /min	60 ft ³ /ft ² /min
Colorfastness to Xenon Light (20 hours)		3 - 4	3 - 4	3 - 4	3 - 4
<small>AATCC 16, Ratings: 5 Best, 3 Acceptable, 1 Poor</small>					

CERTIFICATE OF COMPLIANCE

Certificate Number MH25984
Report Reference MH25984-20171213
Issue Date 2023-March-13

Issued to: SOUTHERN MILLS INC, DBA TENCATE PROTECTIVE FABRICS
6501 MALL BLVD, PO BOX 289
UNION CITY GA 30291-0289

This certificate confirms that representative samples of

Component - Flame-Resistant Garments For Protection Of Industrial Personnel Against Short Duration Thermal Exposures From Fire
Component – Workwear For Protection Against Hydrocarbon Flash Fire
See Addendum Page

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

Standard(s) for Safety:

NFPA 2112, Standard on Flame-Resistant Clothing for Protection of Industrial Personnel Against Short Duration Thermal Exposures from Fire, 2018 Edition,
NFPA 2112, Standard on Flame-Resistant Clothing for Protection of Industrial Personnel Against Short Duration Thermal Exposures from Fire, 2023 Edition, and
CAN/CGSB 155.20, Standard on Workwear for Protection Against Hydrocarbon Flash Fire and Optionally Steam and Hot Fluids, 2017 Edition

Additional Information:

See UL Product iQ® at <https://iq.ulprospector.com> for additional information.

Deborah Jennings-Conner

Deborah Jennings-Conner, VP Regulatory Services

UL LLC

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