

# | GENESIS®



**WITH PROVEN  
ARAMID  
PERFORMANCE**

**GENESIS®**  
**4.5 osy (155 gsm)**

## **ARAMID FIBER BLEND**

Inherently flame-resistant fabric with tri-blend comprised of 93% Meta-Aramid, 5% Para-Aramid, and 2% Anti-Static fiber.

## **LIGHT AND COMFORTABLE**

Genesis® fabrics are tough, yet light and comfortable to wear. Proprietary wicking finish stays soft, keep cool and dry.

## **TOUGH AND ROBUST**

Heavy-duty garments made from Genesis fabrics retain their looks even after repeated high-temperature industrial laundering.

# GENESIS®

| TECHNICAL DATA   |                          | GENESIS®   |
|--|--------------------------|--|
| Nominal Weight   |                          | 4.5 osy (155 gsm)  |
| Construction   |                          | Plain  |
| Colors   |                          | Red, Orange, Navy, Royal Blue, and Spruce Green                  |
| Fiber Content  |                          | Aramid, Anti-Stat  |
| Certification/Compliant  |                          | NFPA 2112, ASTM 1506, NFPA 1975, CGSB 155.20                     |
| <b>Flame Resistance</b>  |                          |  |
| Manikin Burn<br>Predicted Body Burn  | NFPA 2112<br>CGSB 155.20 | 28%  |
| Arc Thermal Performance Value or ATPV<br>PPE Category  | NFPA 70E,<br>ASTM 1959   | 4.8 cal/cm <sup>2</sup><br>Category 1                            |
| Vertical Flame<br>Initial: After flame<br>Initial: Char Length<br>100x After Wash: After flame<br>100x After Wash: Char Length | ASTM 6413,<br>NFPA 2112  | < 2.0 sec<br>< 4.0 in (100 mm)<br>< 2.0 sec<br>< 4.0 in (100 mm) |
| Thermal Shrinkage<br>Initial<br>3x After Wash  | NFPA 2112                | < 10%<br>< 10%   |
| <b>Strength/Durability</b>   |                          |  |
| Tensile Strength<br>Initial (warp x fill)  | ASTM D5043               | 810 x 530 N  |
| Elmendorf Tear (warp x fill)   | ASTM D1424               | 50 x 30 N  |
| Dimensional Stability  | AATCC 135                | < 3.0%   |
| <b>Appearance</b>  |                          |  |
| Color Fastness<br>Laundering Shade Change<br>Laundering Shade Change Crocking<br>(Score 5: Best to 1: Worst)                   | AATCC 61 2A<br>AATCC 8   | Up to 4*<br>Up to 4*   |
| Xenon Light Exposure<br>After 20 hours<br>After 40 hours<br>After 60 hours<br>(Score 5: Best to 1: Worst)                      | AATCC 16                 | Up to 4-5*<br>Up to 4*<br>Up to 3-4*                             |
| Pilling Resistance<br>Initial: 60 minutes<br>(Score 5: Best to 1: Worst)   | ASTM D3512               | Up to 4*   |

\* Appearance depends on shade of fabric.

| STANDARD COLOURS |              |            |
|------------------|--------------|------------|
| Navy             | Spruce Green | Royal Blue |
| Light Blue       | Orange       | Red        |

**OPTIONAL COLORS**

TenCate Protective Fabrics, the world's textile dyeing expert, can produce almost every color with a minimum quantity of 1,000 yards. Smaller quantities can be ordered, subject to a surcharge. For more information about color-combination requirements, as well as any other information you may need, please contact us.