

GENESIS®



**WITH PROVEN
ARAMID
PERFORMANCE**

GENESIS®
4.5 osy (155 gsm) / 6.0 osy (205 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.



 **TENCATE**
protectivefabrics

made for life

GENESIS®

GENERAL ATTRIBUTES	450	600
Nominal Weight	155 gsm	205 gsm
Construction	Plain Weave	Plain Weave
Fiber Content	Meta-Aramid, Para-Aramid and Anti-Static	Meta-Aramid, Para-Aramid and Anti-Static
Finish	Wickwell™ Plus	Wickwell™ Plus
Certifications	NFPA 2112, EN ISO 11612	NFPA 2112, EN ISO 11612

PROTECTION	450	600
Electric Arc Rating ASTM 1959	4.6 cal/cm ² - 4.8 cal/cm ²	5.7 cal/cm ² - 5.9 cal/cm ²
Personal Protective Equipment (PPE) NFPA 70E	PPE1	PPE1
Thermal Protective Performance (TPP) With Spacer	10.5 cal/cm ²	12.0 cal/cm ²
Without Spacer	5.5 cal/cm ²	6.2 cal/cm ²
NFPA 2112 Standard: With 6.0 Minimum, Without 3.0 Minimum		
Flame Resistance		
Char Length	< 4.0 in (< 10.0 cm)	< 4.0 in (< 10.0 cm)
After Flame	< 2 Sec	< 2 Sec
ASTM 6413, NFPA 2112 Standard: 4.0 in Maximum, 2 Sec Maximum		
Thermal Shrinkage (Before Laundering)	3.0%	3.0%
NFPA 2112 Standard: 10% Max		
Mannequin Burn Test (Predicted Burn)	28%	14%
ASTM F1930		

FABRIC STRENGTH	450	600
Tensile Strength	855 N x 536 N	1,190 N x 725 N
ASTM D 5034		
Elmendorf Tear Strength	58 N x 37 N	65 N x 45 N
ASTM D 1424		
Dimensional Stability AATCC 135	≤ 3.0%	≤ 3.0%

LAUNDERING TESTING	450	600
Piling Resistance		
30 minutes	4	4
60 minutes	5	5
90 minutes	5	5
120 minutes	5	5
ASTM 3512, Rating: 5 Best, 3 Acceptable, 1 Poor		
Wicking		
0.5 inch	5.0 sec	5.0 sec
1.0 inch	15.0 sec	12.0 sec
1.5 inch	35.0 sec	28.0 sec
2.0 inch	63.0 sec	59.0 sec
Washing Colorfastness (After 25 Launderings)	4	4
14°F (60°C) Industrial Wash, 160°F Max Stack Dry		
Air Permeability	210 ft ³ /ft ² /min	80 ft ³ /ft ² /min
Colorfastness to Xenon Light (20 Hours)	3 - 4	3 - 4
AATCC 16, Rating: 5 Best, 3 Acceptable, 1 Poor		

* All values subject to final certification and specification.

** Tested on specific colors.

STANDARD COLORS

Navy	Spruce Green	Gray	Royal Blue
Light Blue	Orange	Red	Yellow

OPTIONAL COLORS

TenCate Protective Fabric, 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.

