



| GENESIS®

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.

ENHANCED FLEXIBILITY

GENESIS® in a twill weave provides a wide range of movement without sacrificing protection.

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 (+/- 5%)		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 , EN ISO 11612
Flame Resistance		
Manikin Burn Predicted Body Burn	NFPA 2112 CGSB 155.20	28%
Arc Thermal Performance Value or ATPV PPE Category	NFPA 70E, ASTM 1959	4.8 cal/cm ² 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%
Strength/Durability		
Tensile Strength 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%
Appearance		
Color Fastness Laundering Shade Change Laundering Shade Change Crocking (Score 5: Best to 1: Worst)	AATCC 61 2A AATCC 8	Up to 4* Up to 4*
Xenon Light Exposure After 20 hours After 40 hours After 60 hours (Score 5: Best to 1: Worst)	AATCC 16	Up to 4-5* Up to 4* Up to 3-4*
Pilling Resistance Initial: 60 minutes (Score 5: Best to 1: Worst)	ASTM D3512	Up to 4*

* Appearance depends on shade of fabric.

STANDARD COLORS

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.



| GENESIS®

GENESIS® 6.0 osy (205 gsm)

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 **TENCATE**
protectivefabrics

| *made for life*

GENESIS®

TECHNICAL DATA		GENESIS®
Nominal Weight		6.0 osy (205 gsm)
Construction		Twill
Colors		Red, Orange, Navy, and Royal Blue
Fiber Content		Aramid, Anti-Stat
Certification/Compliant		NFPA 2112, EN ISO 11612, ASTM 1506
Flame Resistance		
Manikin Burn Predicted Body Burn	NFPA 2112 CGSB 155.20	14%
Arc Thermal Performance Value or ATPV PPE Category	NFPA 70E, ASTM 1959	6.6 cal/cm ² 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%
Strength/Durability		
Tensile Strength Initial (warp x fill)	ASTM D5043	1,202 x 592 N
Elmendorf Tear (warp x fill)	ASTM D1424	84 x 50 N
Dimensional Stability	AATCC 135	< 4.0%
Appearance		
Color Fastness Laundering Shade Change Laundering Shade Change Crocking (Score 5: Best to 1: Worst)	AATCC 61 2A AATCC 8	Up to 4-5* Up to 4*
Xenon Light Exposure After 20 hours After 40 hours After 60 hours (Score 5: Best to 1: Worst)	AATCC 16	Up to 4* Up to 3-4* Up to 3*
Pilling Resistance Initial: 60 minutes (Score 5: Best to 1: Worst)	ASTM D3512	Up to 5*

* Appearance depends on shade of fabric.

STANDARD COLOURS

Navy	Red	Royal Blue
Orange		

OPTIONAL COLORS

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