

| ARAMID



**TIME-TESTED
DURABILITY**

Omniweave™ 450/Genesis® 450

MADE FOR THERMAL RISKS

This aramid fabric's time-tested construction offers wearers reliable inherent FR protection against heat and flame.

DURABILITY AND STRENGTH

Tough enough for rugged environments, our aramid fabrics stand up to the uniquely dangerous environments professionals face on the job.

TRUSTED LEGACY

A time-tested solution, industrial professionals around the globe have put their trust in the performance of aramid fabrics for over 50 years.

ARAMID

TECHNICAL DATA*	OMNIWEAVE™ 450 / GENESIS® 450
Nominal Weight	4.5 osy (153 gsm)
Construction	Woven
Color	Red, Orange, Yellow, PC Medium Blue, Dark Navy, F.S. Navy, Royal, Spruce, Gray and Black
Fiber Content	Aramid, Anti-Stat
Certification	ASTM 1506, NFPA 1975, NFPA 2112, CGSB 155.20

Flame Resistance		
Manikin Burn CGSB 155.20, NFPA 2112	Predicted Body Burn	Pass
Thermal Protective Performance NFPA 70E, ASTM 1959	ATPV Rating	4.8 cal/cm ²
	PPE Category	Category 1
Vertical Flame ASTM 6413, NFPA 2112	After flame	< 2.0 sec
	Char length	< 4.0 in (100 mm)
Thermal Shrinkage NFPA 2112	Initial and 3x After Wash	< 10%

Physical Testing		
Tensile Strength ASTM D5034 (Warp x Fill)	Initial	182 x 119 lbf (810 x 530 N)
Elmendorf Tear ASTM D1424, (Wrap x Fill)		11.5 x 7 lbf (50 x 30 N)
Dimensional Stability AATCC 135		< 3.0%
Seam Stability ASTM D434, Fource at 0.25 in slippage		40 lbf (179 N)

Appearance Score 5 (best) to 1 (Worst)			
Color Fastness	Laundering AATCC 612A	Shade Change	Up to 4*
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	Crocking AATCC 8	Wet	Up to 5*
		Dry	Up to 4-5*
	Xenon Light Exposure AATCC 16	After 20 Hours	Up to 4-5*
		After 40 Hours	Up to 4*
		After 60 Hours	Up to 3-4*
	Pilling Resistance ASTM D3512	Initial: 60 min	Up to 4*

* Appearance is dependent on shade of fabric.

AVAILABLE COLORS					OPTIONAL COLORS
Red	Orange	Yellow	PC Medium Blue	Navy Blue	Additional color options may be available. Please contact TenCate Protective Fabrics for more information. Color shades and textures may vary. Please contact your sales representative for swatch samples.
FS Navy	Royal	Spruce	Gray	Black	



STANDARD 100
1807065
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TenCate Protective Fabrics
is certified according:



Corporate
Social
Responsibility

All mentioned data must be considered as indicative values. To the best of our knowledge all information contained herein is accurate. TenCate Protective Fabrics declines any form of liability related to the use of the attached specimen that shall be regarded as a sample only and therefore not meant to be used in any form of garment making.