PIONEER

TIME-TESTED, TRI-CERTIFIED

TIME TESTED

This tri-certified Kevlar®/Nomex® blend offers lightweight thermal protection throughout a wide range of environments.

DURABILITY IN THE FIELD

Pioneer™ boasts exceptional abrasion resistance thanks to the integrated, patent-pending Enforce™ Technology.

WIDE COLOR PALETTE

Available in a wide range of colors for use in a wide range of industries.

TenCate protectivefabrics | *made for life*

PIONEER

TECHNICAL DATA*	PIONEER
Nominal Weight	6.6 osy (224 gsm)
Construction	Woven
Colors	Khaki, Gold, Dark Gold, Black, Yellow
Fiber Content	Meta Aramid, Para Aramid
Finish	FreeFAS™
Certification	NFPA 1971, NFPA 1977, NFPA 1951

Flame Resistance			
Vertical Flame NFPA 1971	Initial and 5x After Wash	After flame	< 2.0 sec
		Char length	<1.0 in (< 25 mm)
Thermal Shrinkage NFPA 1971	Initial and 5x After Wash		<1.0 %
Thermal Protective Performance NFPA 2112			Up to 47.0

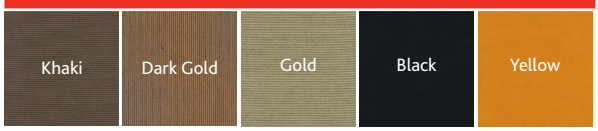
Physical Testing		
Tensile Strength ASTM D5034 (Warp x Fill)	Initial	390 x 350 lbf (1,735 x 1,557 N)
	10x after wash	350 x 300 lbf (1,557 x 1,334 N)
Trap Tear ASTM 5587, NFPA 1971 (Warp x Fill)	Initial	50 x 40 lbf (222 x 178 N)
	5x after wash	45 x 40 lbf (200 x 178 N)
Elmendorf Tear ASTM D1424, (warp x fill)		45 x 45 lbf (200 x 200 N)
Dimensional Stability AATCC 135		< 1.0 %

Comfort		
Total Heat Loss NFPA 1977		Up to 303
Water Absorption AATCC 42	Before Wash	< 10 %
	5x after wash	< 10 %

Appearance Score 5 (Best) to 1 (Worst)			
Color Fastness	Laundering AATCC 61	Shade Change	5 *

* All values subject to final certification and specification
** Tested on specific colors

AVAILABLE COLORS



Sunlight/UV Exposure Advisory: Prolonged sunlight and UV exposure can be damaging to aramid fibers. Both natural (undyed) and dyed aramid fibers will fade or change color with exposure to sunlight or other UV sources. The thermal performance is not affected, but long term or repeated exposures will cause the fabric to gradually weaken. Garments should be stored so that they are protected from sunlight, including windows and bay doors, to maximize wear life. TenCate Protective Fabrics offers no warranties, implied or otherwise, for color change or fabric damage due to UV exposure.

MADE IN USA WITH GLOBAL COMPONENTS

OEKO-TEX® CONFIDENCE IN TEXTILES STANDARD 100

TenCate Protective Fabrics is certified according: ISO 9001 ISO 14001 BUREAU VERITAS Certification

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.