

TenCate Protective Fabrics
Agility® with ENFORCE™ Technology
Data Sheet

GENERAL ATTRIBUTES

Nominal Weight.....6.6 osy (225 gsm)
Construction.....Woven (Twill)
Colors.....Light Gold, Dark Gold, Black Gold
Made in America.....Yes
Fiber Content.....DuPont™ Kevlar®, DuPont™ Nomex®, Polyoxazole
Finish.....Super Shelltite™
Features.....ENFORCE™ Technology
Certification(s).....NFPA 1971 (2013 & 2018 Editions)

FLAME RESISTANCE

Thermal Protective Performance (NFPA 1971)

Quantum3D® SL2 & Gore® CROSSTECH® Black.....42 - 46
Caldura® ELITE with Nomex® Nano & Gore® CROSSTECH® Black.....36 - 38
Caldura® ELITE SL2 & Gore® CROSSTECH® Black.....40 - 44
Caldura® ELITE SL2 & Stedfast Stedair® 3000.....40 - 44
Defender® M SL2 & Gore® CROSSTECH® 3-Layer.....42 - 46
Defender® M NP & Gore® RT7100.....42 - 46

Total Heat Loss (NFPA 1971)

Quantum3D® & Gore® CROSSTECH® Black.....240 - 260
Caldura® ELITE with Nomex® Nano & Gore® CROSSTECH® Black.....300 - 320
Caldura® ELITE SL2 & Gore® CROSSTECH® Black.....255 - 275
Caldura® ELITE SL2 & Stedfast Stedair® 3000.....255 - 275
Defender® M NP & Gore® CROSSTECH® 3-Layer.....215 - 235
Defender® M NP & Gore® RT7100.....210 - 230

Vertical Flame: After Flame (NFPA 1971, warp x fill)

Initial.....0 x 0 sec
After Wash (5X).....0 x 0 sec

Vertical Flame: Char Length (NFPA 1971, warp x fill)

Initial.....< 0.3 X < 0.3 in (< 8 x < 8 mm)
After Wash (5X).....< 0.3 X < 0.3 in (< 8 x < 8 mm)

Thermal Shrinkage (NFPA 1971)

Initial.....< 1.0 percent
After Wash (5X).....< 1.0 percent

Heat Resistance (NFPA 1971)Pass

PHYSICAL TESTING

Trapezoidal Tear (NFPA 1971, warp x fill)

Initial.....65 x 61 lbf (289 x 271 N)
After Wash (5X).....55 x 66 lbf (245 x 294 N)

Tensile Strength (ASTM D5043), warp x fill)

Initial.....459 x 462 lbf (2,042 x 2,055 N)
After Wash (10X).....359 x 419 lbf (1,597 x 1,864 N)

(continued)

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COMFORT

Flexibility (Shirley Stiffness Test, ASTM D 1388)
Initial.....1,061
After Wash (5X).....616
Lower is better. Average 7.2 oz traditional ripstop outer shell earns more than 4,000 in initial stiffness testing and about 1,000 after five launderings. Compared to TenCate Ultra™, Agility™ provides more than 30 percent more flexibility.

Water Absorption (AATCC 42)
Before Wash.....< 1.0 percent
After Wash (5X).....< 1.0 percent

COMPOSITES SUMMARY

Breathability Performance

- Caldura® ELITE with Nomex® Nano & Gore® CROSSTECH® Black

Balanced Performance

- Caldura® ELITE SL2 & Gore® CROSSTECH® Black
- Quantum3D® SL2 & Gore® CROSSTECH® Black
- Caldura® ELITE SL2 & Stedfast Stedair® 3000

Thermal Performance

- Defender® M NP & Gore® CROSSTECH® 3-Layer
- Defender® M NP & Gore® RT7100

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Date of this data: April 25, 2018

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