



Quantum3D®



| PROPERTIES | | |
|--|---|----------------------------|
| Nominal Weight | 7.7 osy (260 gsm) | |
| Facecloths | DuPont™ Kevlar® filament, Lenzing FR®/DuPont™Kevlar®/Nylon spun fibers | |
| Batting | One layer 3D-imaged and one layer flat of DuPont™ Kevlar® /Nomex® spun lace | |
| Facecloth Appearance | Gold Check | |
| Coolderm™ Technology | Yes | |
| Made in America | Yes | |
| Certifications | NFPA 1971 | |
| COMPOSITE TESTING | | |
| TPP NFPA 1971 UL CERTIFIED RESULTS USING GORE® CROSSTECH® BLACK MOISTURE BARRIER | Kombat™ Flex | 43 - 45 |
| | Millenia™ XT | 42 - 44 |
| | Millenia™ XTL | 40 - 42 |
| | Ultra™ | 44 - 46 |
| | Advance™ | 44 - 46 |
| | Gemini™ XT | 45 - 47 |
| THL NFPA 1971 UL CERTIFIED RESULTS USING GORE® CROSSTECH® BLACK MOISTURE BARRIER | Kombat™ Flex | 245 - 265 |
| | Millenia™ XT | 230 - 250 |
| | Millenia™ XTL | 245 - 265 |
| | Ultra™ | 235 - 255 |
| | Advance™ | 230 - 250 |
| | Gemini™ XT | 225 - 245 |
| FLAME TESTING | | |
| Flame Resistance ASTM D6413, NFPA 1971 CHAR LENGTH (WARP X FILL) | Initial | 1.5 x 1.5 in (38 x 38 mm) |
| | 5x after wash | 1.5 x 1.5 in (38 x 38 mm) |
| | After flame | 0 seconds |
| Thermal Shrinkage NFPA 1971-2013 (WARP X FILL) | Initial | < 3.5% x < 0.5% |
| | 5x after wash | < 3.5% x < 0.5% |
| FABRIC STRENGTH | | |
| Trap Tear ASTM 5587, NFPA 1971 (WARP X FILL) | Initial | 50 x 100 lbf (220 x 445 N) |
| | 5x after wash | 50 x 80 lbf (220 x 355 N) |

TenCate Caldura® and Quantum 3D® fabrics are covered by U.S. Patent No. 8,898,821



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All listed data represent typical values. Results from multiple tests unless otherwise stated. To the best of our knowledge, all information contained herein is accurate. TenCate Protective Fabrics USA assumes no liability whatsoever for the accuracy or completeness of the information contained herein. Users of any substance must satisfy themselves by independent investigation that the material can be used safely. TenCate Protective Fabrics describes only certain hazards but cannot guarantee these are the only hazards.

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