

TENCATE Defender™ M

EMERGENCY RESPONSE

The TenCate Defender™ M collection is a range of inherently heat- and flame-resistant fabrics.

Thermal barrier with thermal liner: CQ 760 – 220 g/m²

Military combat-uniform fabrics for firefighting applications

TenCate Defender™ M is a patented breakthrough flame-resistant fabric that helps to protect military personnel all over the world; from the USA-troops in Afghanistan and Iraq to the European military forces in Mali. This technology has been used for the development of an innovative new thermal barrier and liner for firefighter turnout gear.

Good thermal protection – Engineered with spunlace non-woven technology to provide better insulation and protection from radiant heat. The combination with superior moisture management makes it very innovative.

Evaporative cooling effect + heat stress reduction – Breathable fabric engineered with TenCate's Coolderm™-Technology, offering an evaporative cooling effect. Moves perspiration away from the body and spreads moisture for improved dissipation. Keeps the underlying skin cooler and drier; an important factor to contribute to the reduction of heat stress.

Ease of movement – The fabric is flexible, soft and provides great ease of movement.

Inherent FR & inherent wicking; no chemicals/no finishes – The fabric is inherently FR with inherently wicking properties, without the use of chemicals or finishes. These properties never wear nor wash out.

Good durability – Good strength retention after washing and good pilling resistance.

Available in gold color and also in camouflage print.

These fabrics are made by TenCate Protective Fabrics, the largest supplier of FR fabrics in the world. Ask your garment supplier to use the advanced fabrics of TenCate in your turnout gear.



Technical data	TenCate Defender™ M thermal barrier with thermal liner	Test method
Quality	CQ 760	
Usable width	155 cm (+2/-1 cm)	ISO 22198: 2006
Weight	220 g/m ² (+/- 10%)	ISO 3801: 1977
Composition	Thermal barrier: spunlace non-woven - Lenzing FR®/aramid Thermal liner: Lenzing FR®/aramid/polyamide	ISO 1833: 1977
Protection	Thermal barrier for firefighting turnout gear	
Tensile strength	710 N x 640 N (-10%)	EN ISO 13934-1: 2013
Dimensional change after 5 cleaning cycles ISO 6330, 6N: 2013, Procedure F	≤ ± 3%	EN ISO 5077: 2008
Heat resistance 180°	≤ ± 5% shrinkage. No ignition, no melting	ISO 17493: 2000
PPE* requirements		
Washing symbols		
Certification		
	Firefighting	EN 469: 2006/A1
	Industrial flame & heat hazards	EN ISO 11612 A1, A2, B1, C2, F3: 2015
	General requirements	EN ISO 13688: 2013

Standard colour



The colour above is a standard colour and available with a minimum order length of 100 metres. The colour shown is of reference only.

Optional

Any camouflage pattern.

* Copyright symbols: NEN, Delft (Netherlands)



TenCate Protective Fabrics

TenCate is the world's No. 1 producer of protective fabrics for the manufacturing of safety wear. We supply garment-makers with an extensive range of top-quality and technologically advanced fabrics.

Our fabrics become lifesaving garments for firefighters, industrial workers, military personnel and other professionals working under hazardous conditions in danger zones around the world.

We work closely with our customers, end-users, fibre and chemical manufacturers and independent laboratories. As a result, TenCate Protective Fabrics is the one source the world looks to for leadership in knowledge of materials, consistent product quality, and a proven commitment to service excellence.

TenCate is a trademark of Royal Ten Cate nv. Ten Cate Protect bv is a subsidiary of Royal Ten Cate nv.



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