

MILITARY & POLICE

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

DM 9190 - 190 g/m²

Next generation:

Outstanding protection and comfort - now with extended wear life

For many years, TenCate has been known for its patented top-level fabric, TenCate Defender™ M. TenCate not only meets the needs of end-users today, but also thinks ahead to take into account the requirements of the future. By actively taking part in innovation programmes, such as in various army modernisation programmes, TenCate effectively anticipates future demand.

TenCate Protective Fabrics now brings the next-generation TenCate Defender $^{\text{TM}}$ M, with improved freedom of movement – increasing comfort, preventing injuries and improving the physical performance for a longer wear life.

Best protection against body burn injury – TenCate Defender™ M provides the best available protection against severe body burns from improvised explosive devices (IED's), blasts and fuel. Moreover, their protective properties are inherent, i.e., 'built in'. This means they do not wash or wear out.

Strongest fabric – When tested against other FR fabrics, the next-generation TenCate Defender™ M fabric clearly comes out as best-in-class. With its superior strength and outstanding resistance to abrasion and fading, the fabric ensures the longer wear life of the garment.

Remains strong and flexible – After exposure to heat and flames the fabric remains supple and shows good strength retention. As a result, the skin of the wearer remains protected in an emergency.

Cooler, drier and more comfortable — This lightweight fabric, with technical 'ripstop look' is best performing in terms of breathability, moisture absorption and evaporation. TenCate DefenderTM M fabrics show the best air permeability of all fabrics in the same weight class.

Extra protection – We have developed several innovative options that add value to our FR fabric solutions and protect wearers from oil, water and chemical splashes, mosquitoes or foul weather. Get in touch with your TenCate contact for technical advice.







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Technical data	TenCate Defender™M	Test method
Quality	DM 9190	
Width	163 cm (+2/-1 cm)	ISO 22198: 2006
Weight	190 g/m² (± 5%)	ISO 3801: 1977
Composition	Lenzing FR®/aramid/ polyamide/anti-static	
Construction	Ripstop plain	
Available finishes	Hydro-Tec [™]	
Tensile strength	1400 N × 1100 N (-10%)*	ISO 13934-1: 1999
Tear strength	95 N x 90 N (-10%)	ISO 13937-2: 2000
Abrasion resistance on Martindale	≥ 100.000 @12kPa*	ISO 12947-2: 2002
Air permeability	> 200 L/m²/s @ 100 Pa*	ISO 9237: 1995
Dimensional stability	±3%	ISO 5077: 2007
Heat resistance 180°C	± 5% shrinkage. Does not melt or self ignite	ISO 17493: 2000
Washing symbols	₩ <u>X</u> 🖸 🗇 🕑	
PPE requirements	② ②	
Certification		
(a)	Industrial flame & heat hazards	EN ISO 11612 A1,A2,B1,C1: 2008**
互	Anti-static for explosion risk	EN 1149-5: 2008, EN 1149-3: 2004**
	Liquid chemicals	EN 13034, type 6: 2005 **
	Oko-Tex Standard, class 2	Centexbel, no. 1308029

Camouflage

TenCate is one of the few companies worldwide capable of providing any printed camouflage pattern according to defence ministry specifications.

Optional Uni-colours

E.g. Olive green, Tan and Coyote Brown.

- Test result from initial testing. Data ranges may change as more data are acquired
- Certification is pending







Member of the E.T.S.A.









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



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