



Defender™ M

MILITARY & POLICE

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

DP 9180 – 180 g/m²

Inherently heat- and flame-resistant fabric
59/29/10/2% Lenzing® FR/aramid/polyamid/Static-Control™

TenCate Defender™ M - DP 9180 sets the standard for inherently heat- and flame-resistant fabrics with excellent colour properties in the dark shades blue and black. This light weight fabric is not only cool and breathable, thanks to its high Lenzing® FR content, but also highly durable due to the use of meta-aramid, para-aramid and polyamid fibres.

Superior thermal protection – Protects against heat and flame (complies with EN ISO 11612 A1,A2,B1,C1: 2008).

Highly comfortable – Lightweight, breathable and excellent moisture absorption. The fabric feels soft and supple.

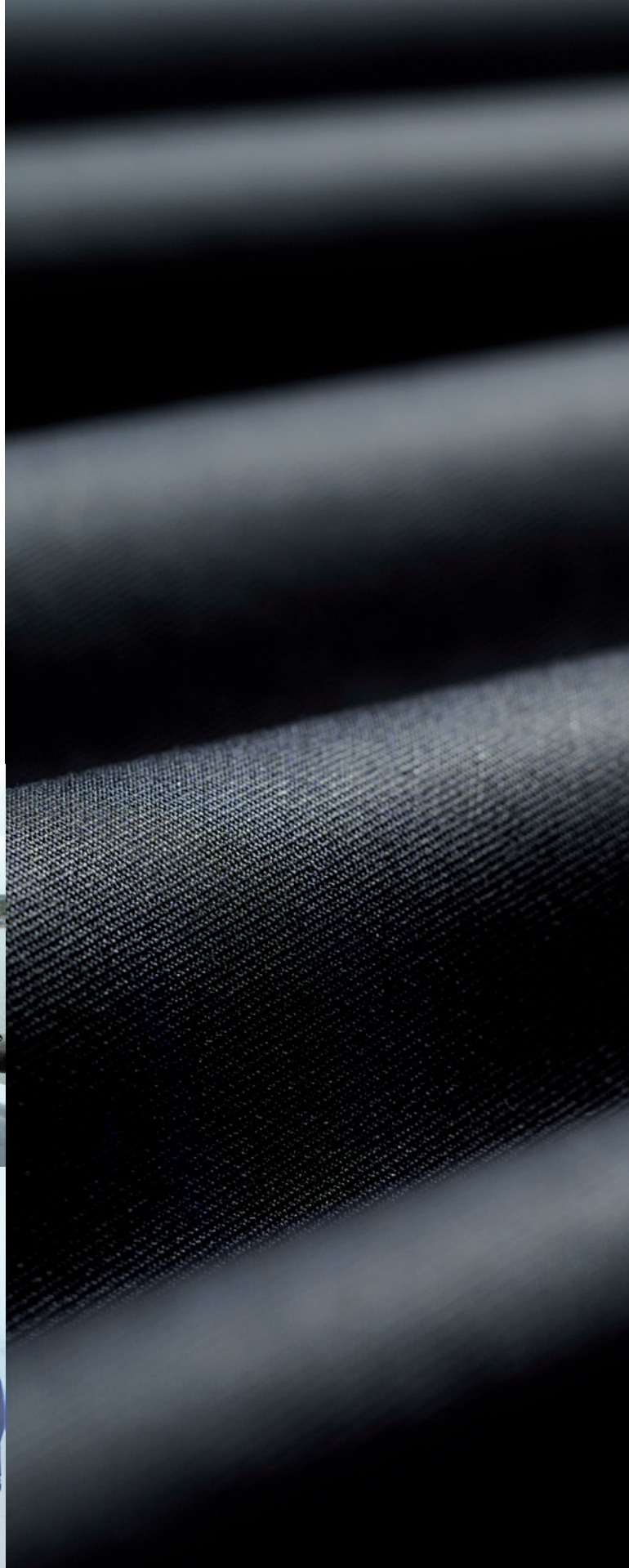
Extremely durable – Excellent abrasion resistance to provide a long useful garment life. The flame-resistant properties are built in and cannot be washed out.

Colour – Superior light fastness and colour fastness after multiple washes.

Long-lasting looks – The fabric has been thoroughly tested for its protective properties and has been submitted to an extensive range of washing and durability tests at independent testing institutes.

Outstanding value – Suitable for application in protective clothing for the markets, such as Marine Corps, air forces and police forces (including riot police and special squads), which principally wear the colours black or dark blue for their operations.

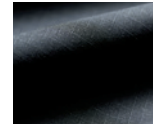
Anti-static for explosion risk protection – TenCate Static-Control™ is a core conductive filament yarn and is 'gridlocked' into the fabric (complies with EN 1149-5: 2008, test method EN 1149-3: 2004).



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

Technical data	TenCate Defender™ M	Test method
Quality	DP 9180	
Width	163 cm (+2/-1 cm)	ISO 22198: 2006
Weight	180 g/m ² (±5%)	ISO 3801: 1977
Composition	59/29/10/2% Lenzing® FR/aramid/polyamid/ Static-Control™	
Construction	2/1 twill	
Available finishes	Hydro-Tec	
Tensile strength	800 N x 550 N	ISO 13934-1: 1999
Tear strength	45 N X 40 N (±10%)	ISO 13937-2: 2000
Abrasion resistance on Martindale	80.000@12kPa	ISO 12947-2: 1999
Dimensional stability	± 3%	ISO 5077: 2007
Colour fastness to light	≥7	ISO 105 - B02: 1994
Flame resistance	meets ISO 14116:2008 Index 3	ISO 15025: 2000
Heat resistance 180°C	± 5% shrinkage. Does not melt or self ignite.	ISO 17493: 2000
Washing symbols		
PPE requirements*		
Certification		
	Industrial flame & heat hazards	EN ISO 11612 A1,A2,B1,C1: 2008
	Anti-static for explosion risk	EN 1149-5: 2008, EN 1149-3: 2004
	Liquid chemicals	EN 13034, type 6: 2005
	General requirements	EN 340: 2003

Available colours



TenCate Defender™ M – DP 9180 is available in the shades black and dark blue

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

Q1-2015 Please check our website for the latest product information.



TEN CATE PROTECT BV
 TenCate Protective Fabrics
 P.O. Box 186
 7440 AD Nijverdal
 The Netherlands
 Tel. +31 (0)548 633922
 Fax +31 (0)548 633256
 E-mail protectivefabrics@tencate.com

www.tencateprotectivefabrics.com