

# DEFENDER<sup>®</sup>M

## DESIGNED TO ADAPT

**DEFENDER<sup>®</sup> M**  
**DP 9180 – 180 g/m<sup>2</sup>**

### **SUPERIOR THERMAL PROTECTION**

Protects against heat and flame (complies with EN ISO 11612 A1,A2,B1,C1: 2008) and offers an optimized protection against severe body burns caused by improvised explosive devices (IED's), blasts and fuel.

### **HIGHLY COMFORTABLE**

Lightweight, breathable and excellent moisture absorption.










### **EXTREMELY DURABLE**

This lightweight fabric offers superior strength properties and colour retention capabilities after washing, for a long garment lifespan.




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TECHNICAL DATA	DEFENDER <sup>®</sup> M	TEST METHOD
Quality	DP 9180	
Width	163 cm (+2/-1 cm)	ISO 22198: 2006
Weight	180 g/m <sup>2</sup> (± 5%)	ISO 3801: 1977
Composition	Lenzing FR <sup>®</sup> /para-aramid/ polyamid/Static-Control <sup>™</sup>	
Construction	2/1 twill	
Available finishes	Hydro-Tec <sup>™</sup>	

Physical performance		
Tensile strength	800 N x 550 N	ISO 13934-1: 1999
Tear strength	45 N X 40 N (±10%)	ISO 13937-2: 2000
Abrasion	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

Care labelling		
Domestic laundering	     	
PPE requirements*	  	

\* Copyright symbols: NEN, Delft (Netherlands)

CERTIFICATION		
	Industrial flame & heat hazards	EN ISO 11612 A1,A2,B1,C1: 2008
	Liquid chemicals**	EN 13034, type 6: 2005
	Anti-static for explosion risk	EN 1149-5: 2008, EN 1149-3: 2004
	General requirements	EN 340: 2003

## COLOURS

Black	Dark blue
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Member of the E.T.S.A.



Ten Cate Protect B.V. is certified according:



All mentioned data must be considered as indicative values. To the best of our knowledge all information contained herein is accurate. TenCate Protective Fabrics Europe declines any form of liability related to the use of the attached specimen that shall be regarded as a sample only and therefore not meant to be used in any form of garment making.