

**TenCate thermal moisture barrier:
CX 140 - 140 g/m²**

First-class thermal moisture barrier with outstanding comfort and excellent performance

The TenCate - CX 140 takes thermal moisture barrier technology to an entirely new level. This fabric is a thermal barrier with a membrane. The thermal barrier is engineered with a patented 3-D spunlace non-woven technology which provides better insulation and moisture management.

The ePTFE/PU bi-component laminate provides superior breathability and is high-temperature resistant and durable due to PU-layer.

The best solution – Suitable for application as the thermal moisture barrier in firefighters turnout gear – Complies with EN 469: 2005.

Outstanding comfort – The most flexible thermal moisture barrier on the market, thin and ultra-light (140 g/m²).

Excellent thermal performance – Gives better thermal protection than comparable thermal moisture barriers in the same weight class, due to 3-D imaged spunlace non-woven.

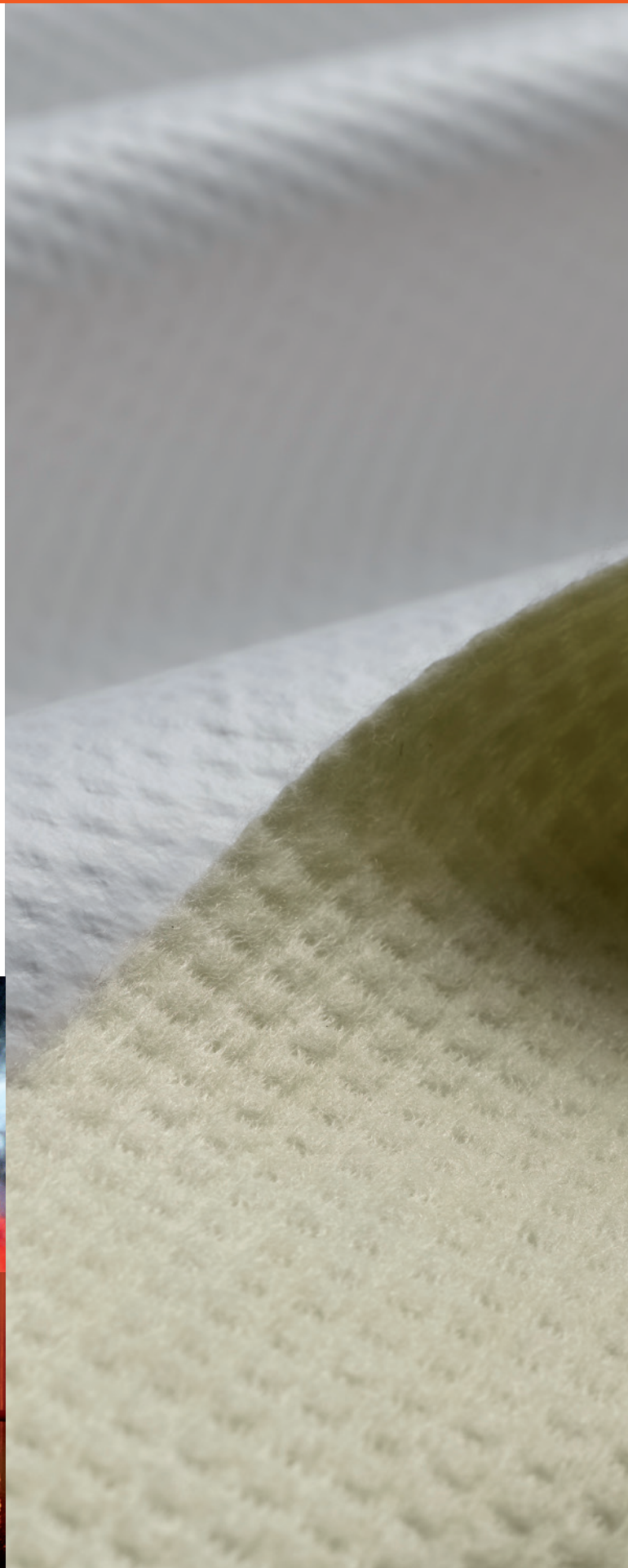
Protection against blood borne pathogens – The TenCate - CX 140 thermal moisture barrier resists the penetration of blood and blood-transmitted diseases.

Liquid chemicals and water protection – Excellent protection against water and hazardous liquids – complies with EN 343, class 3/3: 2003.

Highly durable – The fabric has been thoroughly tested for its protective properties and has also been submitted to an extensive range of washing and wearing tests at independent testing institutes.

Complete system – TenCate is able to supply all the components of the firefighters turn out gear: outer shell, moisture barrier, thermal barrier, thermal liner, reinforcement and cuffs.

These fabrics are made by TenCate Protective Fabrics, the largest supplier of FR fabrics in the world.



Technical data	TenCate	Test method	Fabric in stock
Quality	CX 140		TenCate - CX 140 is available with a minimum order length of 100 metres.
Width	150 cm (+2/-1 cm)	ISO 22198: 2006	
Weight	140 g/m ² (-0/+25%)	ISO 3932: 1980	
Composition	Thermal barrier: 3-D spunlace non-woven - meta-aramid/para-aramid Membrane: ePTFE/PU BI-component		
Protection	Thermal moisture barrier for firefighters turnout gear		Please contact TenCate for further advice on laundering and our recommended tape.
PPE requirements			
Domestic laundering			
Recommended tape	TenCate - TP 3 The quality level of CX 140 is only guaranteed by using this tape for the sealing of the garment.		
Certification			* Certified in 3-layer System. ** After pre-treatment (five wash/dry cycles according to EN ISO 6330: 2012. Procedure 6N (60°C) with tumble drying (Procedure F) (max. 60 °C outlet temperature). *** As received.
	Water penetration and water vapour resistance	EN 343, class 3: 2004	
	Firefighting	EN 469: 2005*	
	Protection against blood and blood borne pathogens	EN 14126: 2003 level 6, test methods ISO 16603 and ISO 16604	

Summary of results EN 469: 2005*					
Property	Test method	EN 469: 2005 requirements		Results obtained	PASS/level
6.1 Flame spread (non-woven side)	EN ISO 15025: 2002 Procedure A	ISO 14116: 2008 Index 3: No flaming to edge - No hole formation - No flaming or molten debris - Mean afterflame ≤ 2s - Afterglow not to spread		ISO 14116:2008 Index 3: No flaming to edge - No hole formation - No flaming or molten debris - No afterflame - No afterglow	PASS**
6.5 Heat resistance	ISO 17493: 2000 at 180 °C	Materials shall not ignite or melt Shrinkage ≤ 5%		Material did not ignite or melt. Max. Shrinkage: 0.5%	PASS***
6.11 Resistance to water penetration	EN 20811: 1992 (1996)	Level 1 < 20kPa	Level 2 ≥ 20kPa	Hydrostatic head = > 20kPa	Level 2**
6.12 Water vapour resistance	EN 31092: 1996	Level 1 > 30m ² .Pa/W	Level 2 ≤ 30m ² .Pa/W	Ret = 6.0 m ² .Pa/W	Level 2**



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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