

**TenCate thermal liner:
CZ 705 – 130 g/m²**

Greater comfort: flexible, light & excellent moisture management

This TenCate liner for fire fighter turnout gear is recognized worldwide by its unique weave design and durable moisture management properties. It is a combination of filament and spun yarns to create a slick surface that provides ease of movement and greater flexibility.

Outstanding comfort – The most flexible thermal liner on the market; thin and ultra light (130 g/m²).

Transports perspiration away from skin – Inherent wicking technology of this TenCate liner moves perspiration away from body and spreads moisture for improved dissipation and unmatched wickability.

Highly durable – Superior resistance to pilling.





Excellent thermal protection – The inherent heat- and flame-resistant properties can't be washed or wear out.

Enhanced ease of movement – The slick surface provides ease of movement and a fire fighter can easily put on or take off his turnout gear.

Lightest system – This thermal liner is also used in TenCate Millenia™ – 450 system – the lightest and strongest system for fire fighter turnout gear.

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



Technical data	TenCate thermal liner	Test method	Standard colour
Quality	CZ 705		 <p>The colour above is a standard colour and available with a minimum order length of 100 metres. The colour shown is a reference only.</p> <p>* Test result from initial testing. Data ranges may change as more data are acquired. ** Copyright symbols: NEN, Delft (Netherlands) *** After pre-treatment (five wash/dry cycles according to EN ISO 6330: 2000. Procedure 2A (60°C) with tumble drying (Procedure E) (max. 70°C outlet temperature). **** As received</p>
Width	160 cm (+2/-1 cm)	ISO 3801: 1978	
Weight	130 g/m ² (± 5%)	ISO 3932: 1980	
Composition	GoldCheck™ patterned facecloth Kevlar filament and FR rayon/para-aramid/nylon, spun yarns		
Tensile strength*	550 N x 3200 N	ISO 13934-1: 1999 (> 450)	
Pilling*	4/5	ISO 12945-1: 2000	
Protection	Thermal liner for firefighters turnout gear		
PPE** requirements			
Domestic laundering			
Certification			
	Firefighting	EN 469: 2005	
	General requirements	EN 340: 2004	

Summary of results EN 469: 2005				
Property	Test method	EN 469: 2005 requirements	Results obtained	PASS
6.1 Flame spread	EN ISO 15025: 2002 Procedure A	EN 533 index 3: No flaming to edge - No hole formation - No flaming or molten debris - Mean afterflame ≤ 2s - Afterglow not to spread	EN 533 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: < 1%	PASS****
6.9 Dimensional change	ISO 5077: 1984	Max ± 3% (= shrinkage)	Warp: -2,5% Weft: -0,6%	PASS***


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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