

TENCATE
Tecashield

EMERGENCY RESPONSE

The TenCate Tecashield® collection is a range of inherently heat- and flame-resistant fabrics.

CZ 703 – 130 g/m²

Inherently heat- and flame-resistant fabric

Thermal liner: GoldCheck™ patterned facecloth
 meta-aramid (spun and filament)

TenCate Tecashield® - CZ 703 takes thermal liner technology to an entirely new level. The thermal liner is engineered with both performance and aesthetics in mind. This liner is recognized worldwide by its unique weave design and combination of filament and spun yarns to create a slick surface that provides ease of movement and greater flexibility.

The best solution – Suitable for application as the thermal liner of turnout gear for firefighters - Complies with EN 469: 2005.

Outstanding comfort – The most flexible thermal liner on the market, thin and ultra-light (130 g/m²) with an easy on/off slick face cloth.

Ease of movement - The filament yarns minimize the friction and improve overall mobility and range of movement.

Moisture management – Wickwell™ plus technology moves perspiration away from body, spreads moisture for improved dissipation and unmatched wickability.

Highly durable – Outstanding pilling resistance.





Long-lasting looks – 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.

Millenia 450 – Primary component of world's lightest system (at 450 g/m²) on the international market, which complies with EN 469, level 2.

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



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Technical data	TenCate Tecashield®	Test method	Standard colour
Quality	CZ 703		 <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>* Copyright symbols: NEN, Delft (Netherlands)</p> <p>** 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).</p> <p>*** 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 meta-aramid (spun and filament).		
Tear strength	80 N x 100 N	ISO 13937-2: 2000 (> 25)	
Tensile strength	900 N x 870 N	ISO 13934-1: 1999 (> 450)	
Martindale abrasion	45.000 (9 kPa)	ISO 12947-2: 2002	
Pilling	4/5 x 4/5	ISO 12945-1: 2000	
Protection	Thermal liner for firefighters turnout gear		
PPE* requirements			
Domestic laundering			
Certification	 Firefighting	EN 469: 2005	

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 molton debris - Mean afterflame ≤ 2s - Afterglow not to spread	EN 533 index 3: No flaming to edge - No hole formation - No flaming or molton 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)	< 3%	PASS**



TenCate Protective Fabrics

TenCate Protective Fabrics consists of three companies: TenCate Protective Fabrics EMEA, TenCate Protective Fabrics Americas, TenCate Protective Fabrics Asia. We develop and produce the most comprehensive range of proven, high-performance fabrics used to make protective clothing.

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

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