

**CQ 8 – 270 g/m<sup>2</sup>**
**Inherently heat- and flame-resistant fabric**
**Thermal barrier with thermal liner:**
**Thermal barrier: Aramid/FR-Viscose (needle punched non-woven)**
**Thermal liner: 50/50% Meta-aramid/FR Modacrylic**

The TenCate - CQ 8 is a low cost thermal barrier and is a combination of an inherently heat- and flame-resistant non-woven thermal barrier with a woven thermal liner.

**Affordable solution** – Suitable for application as the thermal barrier of turnout gear for firefighters – Complies with EN 469: 2005.

**Comfortable** – Flexible thermal barrier (270 g/m<sup>2</sup>).

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





**Durable** – Good pilling resistance due to the blend of the thermal liner.

**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.

**Thermal liner** – This liner can be bought as thermal liner only: TenCate - CZ 8 (115 g/m<sup>2</sup>).

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



Technical data	TenCate	Test method	Standard colour
Quality	CQ 8		 <p>CO Denim Blue 90106</p> <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	153 cm (± 2,5 cm)	ISO 3801: 1978	
Weight	270 g/m <sup>2</sup> (± 5%)	ISO 3932: 1980	
Composition	<b>Thermal barrier:</b> aramid/FR-Viscose (needle punched non-woven) <b>Thermal liner:</b> 50/50% Meta-aramid/FR Modacrylic		
Tear strength	76 N x 46 N	ISO 13937-1: 2000	
Tensile strength	622 N x 236 N	ISO 13934-1: 1999	
Martindale abrasion	47.500 (9 kPa)	ISO 12947-2: 2002	
Pilling	3 x 3	ISO 12945-1: 2000	
Protection	Thermal barrier 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/level
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**
6.2 Heat transfer (flame)	EN 367: 1992	<u>Level 1</u> HTI <sub>24</sub> ≥ 9,0 HTI <sub>24</sub> - HTI <sub>12</sub> ≥ 3,0	<u>Level 2</u> HTI <sub>24</sub> ≥ 13,0 HTI <sub>24</sub> - HTI <sub>12</sub> ≥ 4,0	<u>Level 2</u> HTI <sub>24</sub> = 12,4 (based on lowest result) HTI <sub>24</sub> - HTI <sub>12</sub> = 3,7 (based on lowest result)	Level 1**
6.3 Heat transfer (radiation)	EN ISO 6942: 2002 Method B at 40kW/m <sup>2</sup>	<u>Level 1</u> RHTI <sub>24</sub> ≥ 10,0 RHTI <sub>24</sub> - RHTI <sub>12</sub> ≥ 3,0	<u>Level 2</u> RHTI <sub>24</sub> ≥ 18,0 RHTI <sub>24</sub> - RHTI <sub>12</sub> ≥ 4,0	<u>Level 2</u> RHTI <sub>24</sub> = 14,6 (based on lowest result) RHTI <sub>24</sub> - HTI <sub>12</sub> = 4,7 (based on lowest result)	Level 1**
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***
6.9 Dimensional change	ISO 5077: 2007	Max ± 3% (= shrinkage)		< 3%	PASS**



Member of the E.T.S.A.

**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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