

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

KB 9220 – 220 g/m²

TenCate technology: adding comfort to aramid based fabrics

TenCate Tecashield® - KB 9220 is made from a patented technology that combines comfort of Lenzing FR® with the proven protection of Nomex® fibres for an unusually soft hand and outstanding moisture management. With this fabric you no longer have to trade protection for comfort.

Excellent protection against flash fire – Its thermal protective performance, vertical flammability, predicted flash fire protection level, and thermal shrinkage resistance far exceed the protection level for industrial safety.

Good protection against electric arc – Similar protection level compared to Nomex® based fabrics. Complies with EN IEC 61482-1-2: class 1.

Superior comfort – Lightweight, breathable and excellent moisture absorption thanks to its high Lenzing FR® content.

Inherently FR – Because of the inherent FR properties of the fabric, its protection will never wash or wear out (complies with EN ISO 11612: 2008).

Wide range of colours – This fabric contains piece dyed Nomex® and can be produced in almost any colour.

Colour fast – This fabric retains its superior colour fastness even after many washes.

Highly durable – With a great resistance to pilling as well on martindale abrasion.

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



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Technical data	TenCate Tecashield®	Test method
Quality	KB 9220	
Width	152 cm (+2/-1 cm)	ISO 3801: 1978
Weight	220 g/m ² (± 5%)	ISO 3932: 1980
Composition	Nomex® III/Lenzing FR®/ Polyamid/ Static-Control™ 49/40/10/1%	
Construction	2/1 twill	
Available finishes	Standard: Comfort Optional: Hydro-Tec	
Tensile strength	800 N x 600 N (±10%)	ISO 13934-1: 1999
Domestic laundering		
Industrial laundering	75 °C	
Protection	Multi-risk	
PPE requirements*		
Certification		
	Industrial flame & heat hazards	EN ISO 11612 A1,A2,B1,C1, F1: 2008
	Welding	EN ISO 11611, class 1: 2007
	Electric Arc	EN IEC 61482-1-2, class 1: 2008
	Anti-static for explosion risk	EN 1149-5: 2008, EN 1149-3: 2004
	Liquid chemicals**	EN 13034, type 6: 2005
	General requirements***	EN 340: 2004

* Copyright symbols: NEN, Delft (Netherlands)
** Hydro-Tec finish only
*** Tested on specific colours

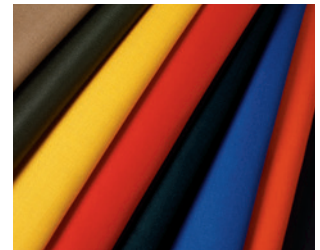
Mannequin test	Flashover exposure [84 kW/m ² ; 60 seconds evaluation time]	
ISO 13506: 2008	KB 9220****, 220 g/m ²	Aramid fabric****, 220 g/m ²
	4 sec. exposure	4 sec. exposure
Burn degree (2nd + 3rd)	36%	50%
3 rd degree	11%	30%

**** Tested at EMPA (Switzerland) with the same garment design, size and test conditions



The colours above are standard colours and available with a minimum order length of 100 metres. Colours shown are references only.

Optional colours



TenCate, the world's textile dyeing expert, can produce the TenCate Tecashield® containing Nomex® fabrics in almost any colour. Minimum order 1400m; larger orders in multiples of 1400m. Other lengths possible at additional charge. For more information about colour-combination requirements, as well as any other information you may need, please contact TenCate.

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.

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