

TENCATE Tecashield®

INDUSTRIAL SAFETY

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

BV 190 – 255 g/m²

Inherently heat- and flame-resistant fabric
Multi-risk protection
Nomex® Comfort: 93/5/2% Nomex/Para-Aramid/p140

TenCate Tecashield® - BV 190 is an inherently heat- and flame-resistant Nomex® Comfort fabric with a 3/1 twill construction. This fabric is extremely durable and stable due to the use of para-aramid fibres.

Outstanding value – Suitable for application in protective clothing used in, for example, the metal, utilities, chemical, energy, construction and military sectors, and fire fighters' station wear.

Multi-risk protection – Protects against heat and flame, electric arc, static electricity and liquid chemicals (optional).

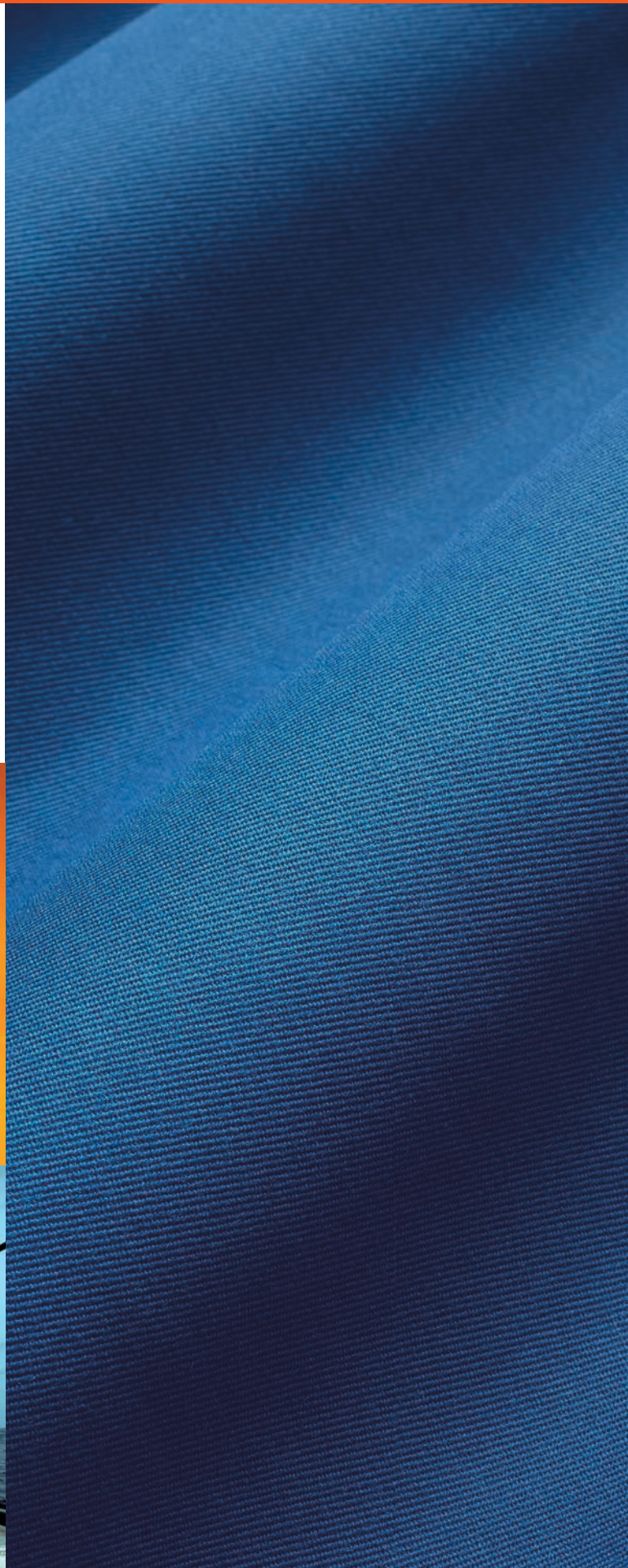
Premium thermal protection – Protects against convective and radiant heat. Tested according to EN ISO 11612 A1, B1, C1, F1: 2008 (A1 = 100 x ISO 15797 - 75°C).

Anti-static for explosion risk protection – Due to the inclusion of p140 fibres, this fabric is anti-static and complies with EN 1149-5: 2008 test method EN 1149-3: 2004.

Limited chemical protection – Protects against splashes, thanks to Hydro-Tec, an innovative nanotechnology finish (complies with EN 13034: 2005).

Highly durable – FR properties are built-in with excellent price/quality performance.

Long-lasting looks – Available in a wide-range of colours. 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.



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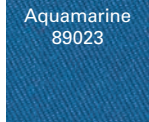
Technical data	TenCate Tecashield®	Test method
Quality	BV 190	
Width	163 cm (+2/-1 cm)	ISO 3801: 1978
Weight	255 g/m ² (± 5%)	ISO 3932: 1980
Composition	Nomex® Comfort: Nomex/para-aramid/p140 93/5/2%	
Construction	3/1 twill	
Available finishes	Standard: Hydro-Tec Optional: Comfort	
Tensile strength	1250 N x 1250 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, B1, C1, F1: 2008 (A1 = 100 x ISO 15797 - 75°C)
	Electric Arc	EN IEC 61482-1-2, class 1: 2007
	Welding	EN ISO 11611, class 1: 2007
	Anti-static for explosion risk	EN 1149-5: 2008, EN 1149-3: 2004
	Liquid chemicals**	EN 13034, type 6: 2005
	General requirements***	EN 340: 2003

* Copyright symbols: NEN, Delft (Netherlands)

** Hydro-Tec finish only

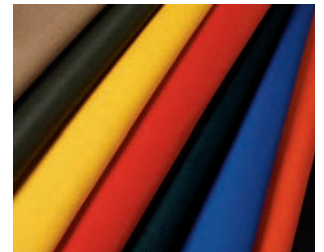
*** Tested on specific colours

Standard colours



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.



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.

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TenCate Tecashield® - BV 111 - BV 130 - BV 170 - BV 180 - BV 185 - BV 190 - BV 9107 - BV 9120 - BX 9220 - BX 9260 - FX 9220 - KB 9220

GENERAL

Sorting	Sort the washing per colour and/or degree of soiling. When washing dyed and/or printed clothing, wash light and dark colours separately. Wash all flame-retardant clothing separately from other clothing, in order to avoid the transfer of foreign flammable fibers or other materials.
Detergent for colours	For colours, use a detergent without optical whites, whenever possible.
Dehydration	Press with an adapted low pressure, or for a short period of time.
Drying	Drying in a finisher/tunnel gives a better appearance and less shrinkage than drying in a tumbler. Avoid excessive drying as this can damage the fabric.
Accessories	Hard materials (buttons/zips) can cause wear and tear.
Stain removal	Wash the clothing regularly to avoid fixation of stains.

HEAT- AND FLAME-RESISTANT PROPERTIES

Rinsing heat- and flame-resistant material	Rinse with soft water. Detergent residues can negatively influence the flame-retardant properties.
Negative effect on flammability	Do not allow the clothing to become excessively soiled, as this can have a negative effect on the flame behavior. It is better to increase the cleaning frequency.
Post-wash treatment	Softeners can negatively affect flame-retardant properties. A softener should only be applied to flame-retardant garments once its effect on the fire-resistant properties of the fabric has been tested.
Alkalinity	The pH value of this fabric (pH 10) must not be exceeded due to the colourants used.

HYDRO-TEC

Detergent	Use only laundry detergents suitable for Hydro-Tec. Remove all detergent residues, as they can have a negative effect on the fabric's water-repellent properties.
Bleach	Avoid using if possible.
Wash temperature	Maximum 60 °C. For the longest-lasting and optimum protection of Hydro-Tec finishes between washes, without reapplication, we recommend a max. temperature of 60 °C. Higher wash temperatures can negatively affect the Hydro-Tec finish.
Drying	As hot as possible – high drying temperatures reactivate the fluorine compounds and promote optimum repellence. Hydro-Tec is suitable for tumble and tunnel dryers. Avoid excessive drying as this can damage the fabric.
Ironing	Ironing has a positive effect on the reactivation of Hydro-Tec.
Reapplication	To get the best protection and maintain beading, Hydro-Tec must be reapplied after each wash. To ensure the optimum effect, please refer to the detergent and chemicals manufacturer. The application of impregnation agents to fabric to a domestic wash is not usually possible, so effective impregnation is only sensible in industrial laundries.

HYDRO-CONTROL™ / PU-COATING

TenCate has different washing instructions for Hydro-Control™ laminate and PU-Coating fabrics.

Collection 2014. These recommendations have been compiled with the greatest care by TenCate Protective Fabrics EMEA. TenCate is not liable for damage caused by not (correctly) following this advice. No rights can be derived from these recommendations.

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TENCATE TECASHIELD®				NOMEX®/ LENZING FR®
Colour	Number	Group	Finish	KB 9220 220 g/m ²
NIGHT BLUE	89259		Comfort	
BRILLIANT BLUE	89278		Comfort	

TENCATE TECASHIELD®				NOMEX® III		NOMEX® COMFORT		
Colour	Number	Group	Finish	BV 130	BV 9120	BV 170	BV 185	BV 190
				180 g/m ²	265 g/m ²	160 g/m ²	215 g/m ²	255 g/m ²
AQUAMARINE	89023		Hydro-Tec					
			Comfort					
CRANBERRY	89016	S	Hydro-Tec					
INK	89201		Hydro-Tec					
			Comfort					
TANGERINE	89013	S	Hydro-Tec					
NERO	89239		Hydro-Tec					

COLOURS 2017

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- Protective Fabrics
- Outdoor Fabrics
- Aerospace Composites
- Armour Composites
- Geosynthetics
- Industrial Fabrics
- Grass