



Tecasafe® Plus

INDUSTRIAL SAFETY

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

XL 9700 – 240 g/m²

TENCATE

PATENTED

For the best FR protection against flash fire and electric arc. Plus...it's cooler, dryer & more comfortable.

TenCate Tecasafe® Plus is a collection of inherently heat- and flame-resistant fabrics that offer excellent protection against flash fire and electric arc. But above all: these fabrics are soft and breathable with superior moisture management properties. As a result, the wearer feels: cooler, dryer and more comfortable.

Best inherent FR protection – The fabric provides the best available protection against severe body burns caused by the exposure to a flash fire, electric arc or other industrial heat and flame hazards. It's protective properties are inherent and they won't wash or wear out. Due to Hydro-Tec finish, the fabric protects against limited chemical splashes.

Cooler, dryer and more comfortable – Thanks to the bio-cellulose fibres in the composition, the fabrics offers significantly better moisture regulating properties than synthetic aramid fibres, such as Nomex®.

Soft and supple – without compromising on protection, ensuring maximum wearability.

Anti-static is build in – Protecting against the risk of an explosion. The fabric continuously discharges to the ambient air, thanks to the TenCate Static-Control™ fibre that is 'gridlocked' into it.

Strong and pilling resistant – Better than many other protective fabrics, retains its strength and colour even after extensive industrial laundering.

Cost-effective – Long life-cycle and attractive pricing.

High-visibility – The option of inherent FR and high-visibility yellow in a single fabric.

Environmentally friendly – TenCate Tecasafe® Plus fabrics use inherent bio-cellulosic fibres, resulting in less waste in the production process compared to cotton or viscose.



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Technical data	TenCate Tecasafe® Plus	Test method
Quality	XL 9700 (light colours)	
Width	152 cm (+2/-1 cm)	ISO 3801: 1978
Weight	240 g/m ² (± 5%)	ISO 3932: 1980
Composition	47/37/15/1% PPA-fr/lyocell/para-aramid/ Static-Control™	
Construction	2/1 twill	
Available finishes	Standard: Hydro-Tec. Optional: Comfort	
Tensile strength	1100 N x 600 N (±10%) **	ISO 13934-1: 1999
Domestic laundering	 60     	
Industrial laundering	75 °C	
Protection	Multi-risk	
PPE requirements *	     optional: 	
Certification		
	Industrial flame & heat hazards	EN ISO 11612 A1,A2,B1,C1,E1,F1: 2008 (A1 + A2= 100 x ISO 15797 - 75 °C)
	Wildland fire fighting	EN 15614: 2007
	Welding	EN ISO 11611, class 1: 2007***
	Electric Arc	EN IEC 61482-1-2, class 1: 2007 ASTM F1959 - ATPV 8,4 cal/cm ²
	Anti-Static for explosion risk	EN 1149-5: 2008, EN 1149-3: 2004
	Liquid chemicals **	EN 13034, type 6: 2005
	High Visibility colour: Yellow Contrast colours: Delftblue 89249	EN ISO 20471: 2013
	General requirements ****	EN 340: 2003
	Öko-Tex Standard 100, class 2	Centexbel, no. 0903009

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 TenCate Tecasafe® Plus 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.

* Copyright symbols: NEN, Delft (Netherlands)
** Hydro-Tec finish only
*** Although this fabric full-fills the requirements of EN ISO 11611, fabrics out of the TenCate Tecapro® collection are more suitable for welding applications
**** Tested on specific colours



Member of the E.T.S.A.



Mannequin test	Flashover exposure [84 kW/m ² ; 60 seconds evaluation time]			
	XL 9700*, 240 g/m ²		Aramid fabric*, 220 g/m ²	
ISO 13506: 2008	3 sec. exposure	4 sec. exposure	3 sec. exposure	4 sec. exposure
Burn degree (2 nd + 3 rd)	12%	41%	33%	55%
3 rd degree	7%	12%	8%	15%

* Tested at North Carolina State University - United States with the same garment design, size and test conditions.

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



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