

Material Data Sheet

ZETEL® ZX Anti-Static

Elliotts ZETEL® ZX is a flame retardant Anti-Static two layer heavy duty durable, breathable, waterproof and windproof fabric. Garments made from ZETEL® ZX are all seam sealed ensuring you stay dry in wet conditions.

Technical Data	
Material description	300D Oxford Breathable PU Coating Waterproof Fabric
Fibre content	100% Polyester with Carbon
Anti-Static properties	<p>ZETEL® ZX incorporates Core Conducting yarns which offer far superior performance and durability when compared to traditional surface conducting fabrics.</p> <p>Core Conducting yarns have a carbon core and polyester sheath. The carbon is therefore woven inside the material which offers an additional level of protection above the polyester sheath.</p> <p>ZETEL® ZX is a superior anti-static fabric that offers extra durability, superior anti-static protection and improved safety. ZETEL® ZX conforms to the requirements of EN 1149-3:2004 Protective clothing. Electrostatic properties. Test methods for measurement of charge decay.</p> <p>What is the difference between EN 1149-1:1996 and EN 1149-3:2004</p> <ul style="list-style-type: none"> • EN 1149-1:1996 Protective clothing. Electrostatic properties. Surface resistivity (test methods and requirements) • EN 1149-3:2004 Protective clothing. Electrostatic properties. Test methods for measurement of charge decay. <p>EN 1149-1:1996 is the traditional testing method which places two electrodes on the surface of the fabric, and measures the current between the electrodes. If the current passes from one electrode to the other, then the fabric is conductive, and therefore antistatic in its ability to carry static charge away from the fabric.</p> <p>EN 1149-3:2004 is the latest testing method for testing modern superior Core Conducting yarns. Core Conducting yarns have a carbon core, with a polyester sheath. The static leaks through the polyester sheath to the carbon core and is carried away the same as conventional carbon or steel yarns. The polyester sheath is also an insulating layer, which functions to prevent a high static load from "jumping" off the traditional surface mounted conducting yarns in severe situations.</p> <p>In a high static load situation where a body may not be earthed, conventional anti-static yarns can still be the source of a spark jumping from the garment. i.e. core conducting yarns offer higher resistance to incendiary discharge in an ungrounded state than conventional anti-static fabrics.</p>



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Test	Methods	Unit	Requirements	Result
Width	AS-2001.2.12	mm	<1450	1500
Mass	AS-2001.2.13	gm/m ²	185-205	190
Tensile strength Warp Weft	AS-2001.2.3.1	N/5.0 cm	>1100 >900	1350 950
Wing rip tear Warp Weft	AS-2001.2.10	N	>60 >55	72 60
Static waterhead	AS-2001.2.17	kpa	>100	200
Breathability	ASTM E96 BW	g/m ² /24 hours		5000
Water repellency	AS-2001.2.16	%	>90	100
Burning behaviour (ease of ignition)	AS-2755.1	Number ignitions	Warp: No ignition-20sec Weft: No ignition-20sec	No ignition No ignition
Shielding factor Charge decay time	prEN-1149.3 prEN-1149.3	Sec half decay time t50Sec	>0.2 <4.0	0.80 <0.01
Colourfastness to wash	AS-2001.4.15	Grey scale	4 (min)	4-5
Colourfastness to perspiration	AS-2001.4.17	Grey scale	4 (min)	4-5
Colourfastness to light	AS-2001.4.21	Grey scale	4 (min)	5
Chromaticity Luminance	EN-471:2003 Yellow EN-471:2003	Colour space co-ordinates %	Within specified x, y co-ordinates >70	x-0.3790 y-0.5369 1.096

