



Prod. Ref.	73081-001
Safety cat.	S1 P ESD SRC
Range of sizes	35 - 48 (2 - 13)
Weight (sz. 8)	620 g
Shape	A
Width	11

**Description:** Blue **TEXPET**, 100% PET ecological fabric shoe, **SANY-DRY®** lining, anti-shock, slipping resistant, non metallic **APT Plate** midsole **Zero Perforation, even with a 3 mm diameter nail**

**Plus:** High electrical conductivity. Stability of the conductive capability for extended period. Jacquard fabric upper produced with **100% PET** yarns that meet the requirements of the Global Recycle Standard (GRS). Hot Melt lamination is a latest generation technology that provides the most innovative response for textile lamination in terms of efficiency and respect for the environment. The complete absence of solvent makes it an eco-friendly process. Internal support produced with 100% PET polyester fibers, equipped to provide the right thickness and support required in footwear production. Polyurethane/TPU sole with **POLY-GREEN** insert, with low electrical resistance, a material made of virgin and recycled polyurethane properly measured and mixed, in order to guarantee a perfect proportion between impact energy absorption and support. **ECO-TECH ESD, POLY-GREEN** footbed, anatomic, holed, scented, soft and comfortable, with low electrical resistance. The upper layer is made of antibacterial fabric absorbs moisture and keeps the foot always dry. **100% recycled** paper and carton packaging. Leather toe cap protection. **Boa®** Fit System allows to put on and take off the shoe easily and quickly. Made of aviation INOX steel, Boa® laces resist to the highest stress. With one single hand it is possible to set the Boa® closure system easily and adjust it to the millimetre (**Micro-adjustability - 1 click = 1 mm**)

**Suggested uses:** Footwear for microelectronic industries. Recommendable in **ATEX** environments

**Care and maintenance:** Clean after each use and dry off away from direct heat; treat the leather with a suitable shoe-polish. Avoid contact with aggressive chemicals or extreme temperature. Avoid immersion in sea water, lime water or cement mixed with water

**Recommendation:** It is always necessary to wear socks made of natural fibers i.e. wool or cotton, because they provide the best performance with electrical conductivity. Avoid introducing any foreign body between foot and footbed of the footwear (i.e. insoles or similar items not equipped by the manufacturer), as they could make void the electrical properties the footwear have been conceived for. Do not undervalue the effect of ageing and contamination of the footwear: during time their electrical resistance can be subjected to alterations. It is always important to check the electrical properties of footwear through the use of special testing devices in electrostatic protected area (EPA), according to the European standard CEI EN 61340-5-1

### MATERIALS / ACCESSORIES

### SAFETY TECHNICAL SPECIFICATIONS

		Clause EN ISO 20345:2011 CEI EN	Description	Unit	Cofra result	Requirement
Complete shoe	E.S.D. features	61340-5-1	Electric resistance of footwear to floor	MΩ	<b>22,8</b>	< 1000
		61340-5-1	Cross resistance	MΩ	<b>17,6</b>	≤ 100
		61340-5-1	Charge ability	V	<b>11,4</b>	< 100
		5.3.2.3	Shock resistance (clearance after shock)	mm	<b>15,5</b>	≥ 14
		5.3.2.4	Compression resistance (clearance after compression)	mm	<b>15</b>	≥ 14
	Toe cap: <b>ALUMINIUM</b> made, ultra light, impact resistant until 200 J and compression resistant until 1500 kg	6.2.1	Penetration resistance	N	<b>To 1100 N</b>	≥ 1100
	Anti perforation midsole: in multi-layers highly tensile fabric, penetration resistant, <b>Zero Perforation</b> , with low electric resistance				<b>No perforation</b>	
	Energy absorption system	6.2.4	Shock absorption	J	<b>32</b>	≥ 20
Upper	TEXPET, 100% PET ecological fabric, colour blue	5.4.6	Water vapour permeability	mg/cmq h	<b>&gt; 1,4</b>	≥ 0,8
			Permeability coefficient	mg/cmq	<b>&gt; 18,2</b>	> 15
Vamp lining	Textile, breathable, abrasion resistant, colour black Thickness 1,2 mm	5.5.3	Water vapour permeability	mg/cmq h	<b>&gt; 6,3</b>	≥ 2
			Permeability coefficient	mg/cmq	<b>&gt; 51,1</b>	≥ 20

<b>Quarter</b>	<b>SANY-DRY®</b> , breathable, antibacterial, abrasion resistant, colour light blue and black	5.5.3	Water vapour permeability	mg/cm <sup>2</sup> h	> <b>10,3</b>	≥ 2
<b>lining</b>	thickness 1,2 mm		Permeability coefficient	mg/cm <sup>2</sup> s	> <b>82,8</b>	≥ 20
<b>Sole</b>	Polyurethane/TPU with low electrical resistance, directly injected in the upper:	5.8.3	Abrasion resistance (lost volume)	mm <sup>3</sup>	<b>65</b>	≤ 150
	Outsole: Silver TPU, slipping resistant, abrasion resistant and hydrocarbons resistant.	5.8.4	Flexing resistance (cut increase)	mm	<b>1,5</b>	≤ 4
	Midsole: Black polyurethane, low density, comfortable and anti-shock.	5.8.5	Interlayer bond strength	N/mm	<b>4,5</b>	≥ 3
		6.4.2	Hydrocarbons resistance (ΔV = volume increase)	%	<b>10</b>	≤ 12
		5.3.5	SRA : ceramic + detergent solution – flat		<b>0,48</b>	≥ 0,32
			SRA : ceramic + detergent solution – heel (contact angle 7°)		<b>0,36</b>	≥ 0,28
			SRB : steel + glycerol – flat		<b>0,22</b>	≥ 0,18
			SRB : steel + glycerol – heel (contact angle 7°)		<b>0,16</b>	≥ 0,13
	Adherence coefficient of the sole					