



<b>Prod. Ref.</b>	35120-002
<b>Safety cat.</b>	S1 P ESD SRC
<b>Range of sizes</b>	36 - 47 (3 - 12)
<b>Weight (sz. 8)</b>	515 g
<b>Shape</b>	A
<b>Width</b>	11

**Description:** White punched **MICROTECH** and **BREATEX** fabric with 3D texture, highly breathable sandal, textile lining, anti-shock, slipping resistant, non metallic **APT Plate** midsole **Zero Perforation**, with low electrical resistance (ESD).

**Plus:** High electrical conductivity. Stability of the conductive capability for extended period. **PU15 ESD**, footbed made of scented and highly shock absorbing polyurethane, thanks to the 15 mm thickness in the heel area, anatomic, holed, with low electric resistance. The upper layer is made of antibacterial textile to prevent from bad odours, to absorb moisture and keep the foot dry. Perfumed sole. Adjustable velcro closure.

**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	Description	Unit	Cofra result	Requirement
<b>Complete shoe</b>	<b>E.S.D. features</b>	CEI EN	Electric resistance of footwear to the ground	MΩ	<b>7</b>	0.75 - 35
		61340-5-1	Outsole superficial electric resistance	MΩ	<b>72</b>	N/A
		61340-4-3	Crosswise outsole electric resistance	MΩ	<b>22</b>	< 100
	<b>Toe cap: ALUMINIUM</b> made, ultra light, impact resistant until 200 J	5.3.2.3	Shock resistance (clearance after shock)	mm	<b>14,5</b>	≥ 14
	and compression resistant until 1500 kg	5.3.2.4	Compression resistance (clearance after compression)	mm	<b>14,5</b>	≥ 14
	<b>Anti perforation midsole:</b> in multi-layers highly tensile fabric, penetration resistant, <b>Zero Perforation</b> , with low electric resistance	6.2.1	Penetration resistance	N	<b>To 1100 N</b>	≥ 1100
					<b>No perforation</b>	
	<b>Energy absorption system:</b> polyurethane low density and heel profile	6.2.4	Shock absorption	J	<b>28</b>	≥ 20
<b>Upper</b>	<b>MICROTECH</b> , breathable, colour white thickness 1,6 mm	5.4.6	Water vapour permeability	mg/cmq h	<b>&gt; 2,8</b>	≥ 0,8
			Permeability coefficient	mg/cmq	<b>&gt; 25,4</b>	> 15
<b>Vamp</b>	Textile, breathable, abrasion resistant, colour white	5.5.3	Water vapour permeability	mg/cmq h	<b>&gt; 6</b>	≥ 2
			Permeability coefficient	mg/cmq	<b>&gt; 48</b>	≥ 20
<b>lining</b>	Thickness 1,2 mm	5.5.3	Water vapour permeability	mg/cmq h	<b>&gt; 9,8</b>	≥ 2
			Permeability coefficient	mg/cmq	<b>&gt; 78,5</b>	≥ 20
<b>Quarter</b>	Textile, breathable, abrasion resistant, colour light blue	5.5.3	Water vapour permeability	mg/cmq h	<b>&gt; 9,8</b>	≥ 2
			Permeability coefficient	mg/cmq	<b>&gt; 78,5</b>	≥ 20
<b>lining</b>	Thickness 1,2 mm	5.8.3	Abrasion resistance (lost volume)	mm <sup>3</sup>	<b>59</b>	≤ 150
		5.8.4	Flexing resistance (cut increase)	mm	<b>1</b>	≤ 4
<b>Sole</b>	Outsole: blue, high density, slipping resistant, abrasion resistant and hydrocarbons resistant,	5.8.6	Interlayer bond strength	N/mm	<b>&gt; 5</b>	≥ 4
		6.4.2	Hydrocarbons resistance (ΔV = volume increase)	%	<b>+ 0,1</b>	≤ 12
	Midsole: ivory, low density, comfortable and anti-shock	5.3.5	SRA : ceramic + detergent solution – flat		<b>0,55</b>	≥ 0,32
	Adherence coefficient of the sole					

SRA : ceramic + detergent solution – heel (contact angle 7°)	<b>0,36</b>	≥ 0,28
SRB : steel + glycerol – flat	<b>0,25</b>	≥ 0,18
SRB : steel + glycerol – heel (contact angle 7°)	<b>0,15</b>	≥ 0,13