

<b>Prod. Ref.</b>	10190-000
<b>Safety cat.</b>	S1 ESD SRC
<b>Range of sizes</b>	36 - 47
<b>Weight (Sz. 8)</b>	470 g
<b>Shape</b>	A
<b>Width</b>	11

**Description:** White **ECOLORICA**<sup>®</sup> sandal, **Sany-Dry**<sup>®</sup> lining, anti-shock, slipping resistant, with low electrical resistance (ESD).

**Plus:** Footwear completely free from metal parts. Handwash with water and neutral soap to max 40°C. **COFRA SOFT ESD**, footbed made of scented PU, anatomic, soft and comfortable with low electric resistance; the shape of the bottom part guarantees impact energy absorption (shock absorber) and high grip; the upper part absorbs moisture and keeps the foot dry. High electrical conductivity. Stability of the conductive capability for extended period. Adjustable velcro.

**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>16</b>	0.75 - 35
		61340-5-1	Outsole superficial electric resistance	MΩ	<b>85</b>	N/A
		61340-4-3	Crosswise outsole electric resistance	MΩ	<b>35</b>	< 100
	<b>Toe cap:</b> non metallic <b>TOP RETURN</b> toe cap, impact resistant until 200 J	5.3.2.3	Shock resistant (free high after shock)	mm	<b>14,2</b>	≥ 14
	and compression resistant until 1500 kg	5.3.2.4	Compression resistance (free high after compression)	mm	<b>14</b>	≥ 14
	<b>Energy absorption system:</b> polyurethane low density and heel profile	6.2.4	Shock absorption	J	<b>&gt; 28</b>	≥ 20
<b>Upper</b>	<b>ECOLORICA</b> <sup>®</sup> , colour white thickness 1,6 mm	5.4.6	Water vapour permeability	mg/cm <sup>2</sup> h	<b>&gt; 1,5</b>	≥ 0,8
			Permeability coefficient	mg/cm <sup>2</sup>	<b>&gt; 15</b>	> 15
<b>Quarter lining</b>	<b>Sany-Dry</b> <sup>®</sup> , breathable, antibacterial, abrasion resistant, colour white thickness 1,2 mm	5.5.3	Water vapour permeability	mg/cm <sup>2</sup> h	<b>&gt; 6,7</b>	≥ 2
			Permeability coefficient	mg/cm <sup>2</sup>	<b>&gt; 54,1</b>	≥ 20
<b>Insole</b>	Conductive, absorbent, abrasion and flaking resistant	5.7.4.1	Abrasion resistance	cycle	<b>&gt; 400</b>	≥ 400
<b>Sole</b>	Dual-density polyurethane, with low electric resistance, directly injected in the upper: Outsole: white, high density, slipping resistant, abrasion resistant and hydrocarbons resistant, Midsole: white, low density, comfortable and anti-shock Adherence coefficient of the sole	5.8.3	Abrasion resistance (lost volume)	mm <sup>3</sup>	<b>85</b>	≤ 150
		5.8.4	Flexing resistance (cut increase)	mm	<b>2,5</b>	≤ 4
		5.8.6	Interlayer bond strength	N/mm	<b>&gt; 5</b>	≥ 4
		6.4.2	Hydrocarbons resistance (ΔV = volume increase)	%	<b>+ 0,4</b>	≤ 12
		5.3.5	SRA : ceramic + detergent solution – flat		<b>0,40</b>	≥ 0,32
			SRA : ceramic + detergent solution – heel (contact angle 7°)		<b>0,38</b>	≥ 0,28
			SRB : steel + glycerol – flat		<b>0,18</b>	≥ 0,18
			SRB : steel + glycerol – heel (contact angle 7°)		<b>0,15</b>	≥ 0,13



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