



Prod. Ref.	79570-000
Safety cat.	S1 P ESD SRC
Range of sizes	35 - 48 (2 - 13)
Weight (sz. 8)	490 g
Shape	A
Width	11

Description: Black suede-like microfiber and highly breathable textile sandal, **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. **MEMORY PLUS** ESD footbed, anatomic, punched and preformed footbed, with low electric resistance. It guarantees ergonomic comfort and high breathability. The memory layer, made of slow memory polyurethane foam, adapts itself to the sole of the foot. The abrasion resistant covering textile, ladderproof and antibacterial, absorbs moisture and leaves the foot always 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 CEI EN	Description	Unit	Cofra result	Requirement
Complete shoe	E.S.D. features	61340-5-1	Electric resistance of footwear to floor	MΩ	32,5	< 1000
		61340-5-1	Cross resistance	MΩ	22,5	≤ 100
		61340-5-1	Charge ability	V	66	< 100
	Toe cap: ALUMINIUM made, ultra light, impact resistant until 200 J	5.3.2.3	Shock resistance (clearance after shock)	mm	15,5	≥ 14
	and compression resistant until 1500 kg	5.3.2.4	Compression resistance (clearance after compression)	mm	16,5	≥ 14
	Anti perforation midsole: in multi-layers highly tensile fabric, penetration resistant, Zero Perforation, with low electric resistance	6.2.1	Penetration resistance	N	To 1100 N	≥ 1100
					No perforation	
	Energy absorption system	6.2.4	Shock absorption	J	31	≥ 20
	Upper	5.4.6	Water vapour permeability	mg/cmq h	> 1,8	≥ 0,8
			Permeability coefficient	mg/cmq	> 18,5	> 15
Vamp	5.5.3	Water vapour permeability	mg/cmq h	> 6,3	≥ 2	
lining		Permeability coefficient	mg/cmq	> 51,1	≥ 20	
Quarter	SANY-DRY®, breathable, antibacterial, abrasion resistant, colour yellow fluo	5.5.3	Water vapour permeability	mg/cmq h	> 10,3	≥ 2
lining			Permeability coefficient	mg/cmq	> 82,8	≥ 20
Sole	Polyurethane/TPU with low electrical resistance, directly injected in the upper:	5.8.3	Abrasion resistance (lost volume)	mm³	47	≤ 150
	Outsole: Silver TPU, slipping resistant, abrasion resistant and hydrocarbons resistant.	5.8.4	Flexing resistance (cut increase)	mm	1,5	≤ 4
	Midsole: Black polyurethane, low density, comfortable and anti-shock.	5.8.5	Interlayer bond strength	N/mm	3,5	≥ 3
		6.4.2	Hydrocarbons resistance (ΔV = volume increase)	%	10	≤ 12

Adherence coefficient of the sole

5.3.5

SRA : ceramic + detergent solution – flat

0,36 ≥ 0,32

SRA : ceramic + detergent solution – heel (contact angle 7°)

0,34 ≥ 0,28

SRB : steel + glycerol – flat

0,26 ≥ 0,18

SRB : steel + glycerol – heel (contact angle 7°)

0,23 ≥ 0,13