



Prod. Ref. 78700-N02
Safety cat. S2 FO SR
Range of sizes 35 - 48 (2 - 13)
Weight (sz. 8) 450 g
Shape A
Width 11

Description: White water repellent and breathable **NEWTECH** slip on shoe, **SANY-DRY®**, anti-shock, slipping resistant, with low electrical resistance (ESD)

Plus: High electrical conductivity. Stability of the conductive capability for extended period. **EVANIT ESD**, footbed made of EVA and nitrile special compound, with highly bearing capacity and variable thickness, **with low electric resistance**. Thermoformed, punched and coated with highly breathable fabric.. Adjusting elastic-velcro fastening. The upper is easy to clean, up to 40°C, with neutral soap and water. Perfumed sole

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

Care and maintenance: Clean after each use and dry off away from direct heat. 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 20345:2022	Description	Unit	Cofra result	Requirement
Complete shoe	E.S.D. features	CEI EN				
		61340-5-1	Electric resistance of footwear to floor	MΩ	51,1	< 1000
		61340-5-1	Cross resistance	MΩ	45,2	≤ 100
		61340-5-1	Charge ability	V	45,56	< 100
Upper	Toe cap: ALUMINIUM made, ultra light, impact resistant until 200 J and compression resistant until 1500 kg	5.3.2.6	Shock resistance (clearance after shock)	mm	17	≥ 14
		5.3.2.7	Compression resistance (clearance after compression)	mm	20	≥ 14
	Energy absorption system	6.2.4	Shock absorption	J	34	≥ 20
		5.4.6	Water vapour permeability	mg/cmq h	> 1,2	≥ 0,8
	White water repellent and breathable NEWTECH thickness 1,8 mm		Permeability coefficient	mg/cmq	> 15,1	≥ 15
		6.3	Water absorption		6%	≤ 30%
			Water penetration		0,0 g	≤ 0,2 g
		5.5.4	Water vapour permeability	mg/cmq h	> 84,7	≥ 2
	Vamp		Permeability coefficient	mg/cmq	> 677,4	≥ 20
		5.5.4	Water vapour permeability	mg/cmq h	> 64,4	≥ 2
	Quarter		Permeability coefficient	mg/cmq	> 515,4	≥ 20
		5.7.4.1	Abrasion resistance	cycle	> 400	≥ 400
Sole	Conductive, absorbent, abrasion and flaking resistant	5.8.4	Abrasion resistance (lost volume)	mm³	110	≤ 150
		5.8.5	Flexing resistance (cut increase)	mm	2,4	≤ 4
		5.8.7	Interlayer bond strength	N/mm	3,5	≥ 3
		6.4.2	Hydrocarbons resistance (ΔV = volume increase)	%	2,3	≤ 12
	Polyurethane/TPU with low electrical resistance, directly injected in the upper: Outsole: white TPU, slipping resistant, abrasion resistant and hydrocarbons resistant. Midsole: white polyurethane, low density, comfortable and anti-shock. Adherence coefficient of the sole (Slip resistance)	5.3.5.2	ceramic + detergent solution – forepart (contact angle 7°)		0,61	≥ 0,36
			ceramic + detergent solution – heel (contact angle 7°)		0,48	≥ 0,31
		6.2.10	SR : ceramic + glycerol – forepart (contact angle 7°)		0,24	≥ 0,22
			SR : ceramic + glycerol – heel (contact angle 7°)		0,46	≥ 0,19

