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PRODUCT SHEET

LOFN S3 ESD SRC

Prod. Ref. 13190-000 Safety cat. S3 ESD SRC Range of sizes 36 - 47 (3 - 12) Weight (Sz. 9) 690 g Shape Α Widht 11

Description: Black/silver water repellent full grain leather shoe, SANY-DRY® lining, anti-shock, slipping resistant, non metallic APT Plate midsole Zero Perforation.

Plus: NON METAL DETECTABLE. High electrical conductibility. Stability of the conductive capability for extended period. TOP COMFORT ESD, footbed made of soft and scented polyurethane, anatomic, holed, with low electric resistance, soft and comfortable. The pattern of the bottom layer guarantees superb impact shock absorption and ease of movement. The upper layer is made of antibacterial textile to prevent from bad odours, to absorb moisture and keep the foot dry. ANTI TORSION SUPPORT made of polycarbonate and fibreglass conveniently placed between heel and sole, which provides support and protection of the plantar arch, thus preventing harmful bendings and/or unwilled torsion. Perfumed sole. Leather toe cap protection. Boa® closure 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	Description	Unit	Cofra result	Requirement
Complete shoe	E.S.D. features	CELEN				
		61340-5-1	Electric resistance of footwear to the ground	$M\Omega$	5,72	0.75 - 35
		61340-4-3	Crosswise outsole electric resistance	$M\Omega$	25,2	< 100
	Toe cap: non metallic TOP RETURN toe cap, Extra Large, impact resistant until 200 J	5.3.2.3	Shock resistant (free high after shock)	mm	15	≥ 14
	and compression resistant until 1500 kg	5.3.2.4	Compression resistance (free high after compression)	mm	14,5	≥ 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 no perforation	≥ 1100
	Energy absorption system	6.2.4	Shock absorption	J	36	≥ 20
Upper	Black water repellent full grain leather	5.4.6	Water vapour permeability	mg/cmq h	> 1	≥ 0,8
	Thickness 1,6/1,8 mm		Permeability coefficient	mg/cmq	> 15,3	> 15
		6.3.1	Water absorption		14%	≤ 30%
			Water penetration		0,0 g	\leq 0,2 g
Vamp	Textile, breathable, abrasion resistant, colour black	5.5.3	Water vapour permeability	mg/cmq h	> 6,3	≥ 2
lining	Thickness 1,2 mm		Permeability coefficient	mg/cmq	> 51,1	≥ 20
Quarter	SANY-DRY®, antibacterial, breathable, abrasion resistant, colour turquoise	5.5.3	Water vapour permeability	mg/cmq h	> 9,8	≥ 2
lining	thickness 1,2 mm		Permeability coefficient	mg/cmq	> 78,5	≥ 20
Sole	dual density polyurethane, with low electric resistance, directly injected in the upper:	5.8.3	Abrasion resistance (lost volume)	mm^3	55	≤ 150

Outsole:	black, high density, slipping resistant, abrasion	5.8.4	Flexing resistance (cut increase)	mm	1,5	≤ 4
	resistant and hydrocarbons resistant,	5.8.6	Interlayer bond strength	N/mm	> 5	≥ 4
Midsole:	black, low density, comfortable and anti-shock	6.4.2	Hydrocarbons resistance (ΔV = volume increase)	%	2	≤ 12
Adherence coefficient of the sole		5.3.5	SRA : ceramic + detergent solution - flat		0,43	≥ 0,32
			SRA : ceramic + detergent solution – heel (contact angle 7°)		0,36	≥ 0,28
			SRB : steel + glycerol – flat		0,2	≥ 0,18
			SRB : steel + glycerol – heel (contact angle 7°)		0,16	≥ 0,13

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