

PRODUCT SHEET

HURLING ESD S3L FO SR

 Prod. Ref.
 18530-004

 Safety cat.
 S3L FO SR

 Range of sizes
 35 - 48 (2 - 13)

 Weight (sz. 8)
 490 g

 Shape
 A

 Width
 11

Description: Black/grey **TECHSHELL**, innovative, very tough, abrasion resistant, water repellent and breathable fabric shoe, **SANY-DRY**® lining, anti-shock, slipping resistant, non metallic **APT Plate** midsole **Zero Perforation**

Plus: High electrical conductibility. Stability of the conductive capability for extended period. **FOOT-PAD ESD** extremely soft and comfortable footbed, **with low electric resistance**. Thanks to the very low density polyurethane, the footbed is self-molding granting a right distribution of the body weight and providing an immediate feeling of comfort. High shock absorption is provided from highly resilient material and a perfect cushion in the central area of the heel. Perfumed sole. **TPU toe cap protection**

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

Clause



Cofra

MATERIALS / ACCESSORIES

SAFETY TECHNICAL SPECIFICATIONS

Complete shoe	E.S.D. features	EN ISO 20345:2022 CEI EN	Description	Unit	result	Requirement
Complete shoe	E.O.D. Totalios	61340-5-1	Electric resistance of footwear to floor	$M\Omega$	80,4	< 1000
		61340-5-1	Cross resistance	$M\Omega$	93,5	≤ 100
		61340-5-1	Charge ability	V	3.89	< 100
	Toe cap: ALUMINIUM made, ultra light, impact resistant until 200 J	5.3.2.6	Shock resistance (clearance after shock)	mm	15	≥ 14
	and compression resistant until 1500 kg	5.3.2.7	Compression resistance (clearance after compression)	mm	18	≥ 14
	Anti perforation midsole: in multi-layers highly tensile fabric, penetration resistant, Zero Perforation,	6.2.1	Penetration resistance	N	To 1100 N	≥ 1100
	with low electric resistance		(PL requirement with Ø 4,5 mm nail)		No perforation	
	Energy absorption system	6.2.4	Shock absorption	J	26	≥ 20
Upper	TECHSHELL, innovative, very tough, abrasion resistant, water repellent and breathable fabric, colour	5.4.6	Water vapour permeability	mg/cmq h	> 5	≥ 0,8
	black/grey Distributed by:		Permeability coefficient	mg/cmq	> 41,5	≥ 15
		6.3	Water absorption		13,37%	≤ 30%
			Water penetration		0,0 g	≤ 0,2 g
		5.4.3	Tear resistance	N	233	≥ 60
	Textile, breathable, abrasion resistant, colour black		Abrasion resistance	Cycle	> 600.000	
Vamp	Textile, breathable, abrasion resistant, colour black	5.5.4	Water vapour permeability	mg/cmq h	> 6,3	≥ 2
lining	Thickness 1,2 mm		Permeability coefficient	mg/cmq	> 51,1	≥ 20
Quarter	SANY-DRY®, breathable, abrasion resistant, colour silver	5.5.4	Water vapour permeability	mg/cmq h	> 10,3	≥ 2
lining	thickness 1,2 mm		Permeability coefficient	mg/cmq	> 82,8	≥ 20
Sole	Polyurethane/TPU with low electrical resistance, directly injected in the upper:	5.8.4	Abrasion resistance (lost volume)	mm ³	89	≤ 150

Outsole:	ice TPU, slipping resistant, abrasion resistant and hydrocarbons resistant.	5.8.5	Flexing resistance (cut increase)	mm	1,6	≤ 4
Midsole:	black polyurethane, low density, comfortable and anti-shock.	5.8.7	Interlayer bond strength	N/mm	3,1	≥ 3
Adherence coefficient of the sole (Slip resistance)		6.4.2	Hydrocarbons resistance (ΔV = volume increase)	%	6,5	≤ 12
		5.3.5.2	ceramic + detergent solution - forepart (contact angle 7°)		0,40	≥ 0,36
			ceramic + detergent solution - heel (contact angle 7°)		0,33	≥ 0,31
		6.2.10	SR : ceramic + glycerol – forepart (contact angle 7°)		0,26	≥ 0,22
			SR : ceramic + glycerol – heel (contact angle 7°)		0,24	≥ 0,19

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