PRODUCT SHEET

JACK WHITE S1 ESD SRC

Prod. Ref.	76490-000
Safety cat.	S1 ESD SRC
Range of sizes	35 - 47
Weight	500 g
Shape	A
Width (2 - 6)	10
Width (6,5 - 12)	11

Description: White punched **MICROTECH** sandal, **ECODRY** lining, anti-shock, slipping resistant, with low electrical resistance (ESD).

Plus: High electrical conductibility. Stability of the conductive capability for extended period. **EVANIT ESD** footbed, made of EVA and nitrile special compound, with high bearing capacity and variable thickness, with low electric resistance. Thermoformed, punched and coated with highly breathable fabric. 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; 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

Complete shoe	**E.S.D. features**
	Toe cap: steel made, varnished with epoxy resin, impact resistant until 200 J
	and compression resistant until 1500 kg
	Energy absorption system: polyurethane low density and heel profile
Upper	Breathable **MICROTECH**, colour white
	thickness 1,6 mm
Vamp lining	Suede leather, breathable, colour beige
	thickness 1,0 m
Quarter lining	**ECODRY**, breathable and abrasion resistant, colour blue
	thickness 0,8 mm
Insole	Conductive, absorbent, abrasion and flaking resistant
Sole	single density polyurethane with low electrical resistance, directly injected on the upper
	colour white, slipping resistant, abrasion resistant and hydrocarbons resistant
	Adherence coefficient of the sole

SAFETY TECHNICAL SPECIFICATIONS

Clause EN ISO 20345:2011	Description	Unit	Cofra result	Standard requirement
CEI EN 61340-5-1 61340-4-3	Electric resistance of footwear to the ground	MΩ	**6,3**	0.75 - 35
	Crosswise outsole electric resistance	MΩ	**14,5**	< 100
5.3.2.3	Shock resistance (clearance after shock)	mm	**14,5**	≥ 14
5.3.2.4	Compression resistance (clearance after compression)	mm	**16**	≥ 14
6.2.4	Shock absorption	J	**32**	≥ 20
5.4.6	Water vapour permeability	mg/cmq h	**> 2**	≥ 0,8
	Permeability coefficient	mg/cmq	**> 17,5**	> 15
5.5.3	Water vapour permeability	mg/cmq h	**> 3,8**	≥ 2
	Permeability coefficient	mg/cmq	**> 36,9**	≥ 20
5.5.3	Water vapour permeability	mg/cmq h	**> 3,2**	≥ 2
	Permeability coefficient	mg/cmq	**> 26,3**	≥ 20
5.7.4.1	Abrasion resistance	cycle	**> 400**	≥ 400
5.8.3	Abrasion resistance (lost volume)	mm^3	**78**	≤ 250
5.8.4	Flexing resistance (cut increase)	mm	**2**	≤ 4
6.4.2	Hydrocarbons resistance (ΔV = volume increase)	%	**1,7**	≤ 12
5.3.5	SRA : ceramic + detergent solution – flat		**0,56**	≥ 0,32
	SRA : ceramic + detergent solution – heel (contact angle 7°)		**0,52**	≥ 0,28
	SRB : steel + glycerol – flat		**0,25**	≥ 0,18
	SRB : steel + glycerol – heel (contact angle 7°)		**0,21**	≥ 0,13