



Description: Black water repellent full grain leather shoe, breathable leather and **TEXELLE** lining, antistatic, anti-shock, slipping resistant, non metallic **APT Plate** midsole **Zero Perforation**.

Plus: Footwear completely free from metal parts. **SOFT-BED** footbed made of soft and scented polyurethane, antistatic, anatomic, holed, soft and comfortable. The upper layer absorbs moisture and keeps the foot dry. Cold and heat insulation. **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 unwilling torsion. Perfumed sole

Suggested uses: Footwear for service industry. Footwear for uniforms

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.

Prod. Ref. 11400-000
Safety cat. S3 SRC
Range of sizes 40 - 47 (6,5 - 12)
Weight (sz. 8) 510 g
Shape A
Width 10,5

MATERIALS / ACCESSORIES

Complete shoe Toe cap: non metallic **TOP RETURN** toe cap, impact resistant until 200 J and compression resistant until 1500 kg

Anti perforation midsole: in multi-layers highly tensile fabric, penetration resistant, **Zero Perforation**

Antistatic shoe: the bottom is fit for the dissipation of electrostatic charges

Energy absorption system

Black water repellent full grain leather thickness 1,4/1,6 mm

Vamp Felt, breathable, colour dark grey

lining Thickness 1,2 mm

Quarter **TEXELLE**, breathable, abrasion resistant, colour black

thickness 1,2 mm

Sole Antistatic Polyurethane/TPU directly injected in the upper:

Outsole: Black TPU, slipping resistant, abrasion resistant and hydrocarbons resistant.

Midsole: Black polyurethane, low density, comfortable and anti-shock.

Adherence coefficient of the sole

SAFETY TECHNICAL SPECIFICATIONS

Clause EN ISO	Description	Unit	Cofra result	Requirement
20345:2011				
5.3.2.3	Shock resistance (clearance after shock)	mm	16	≥ 14
5.3.2.4	Compression resistance (clearance after compression)	mm	14,5	≥ 14
6.2.1	Penetration resistance	N	To 1100 N	≥ 1100
			No Perforation	
6.2.2.2	Electric resistance	MΩ	426	≥ 0,1
	- wet	MΩ	728	≤ 1000
	- dry			
6.2.4	Shock absorption	J	31	≥ 20
5.4.6	Water vapour permeability	mg/cmq h	> 1,4	≥ 0,8
	Permeability coefficient	mg/cmq	> 17,9	> 15
6.3.1	Water absorption		5%	≤ 30%
	Water penetration		0,0 g	≤ 0,2 g
5.5.3	Water vapour permeability	mg/cmq h	> 4,7	≥ 2
	Permeability coefficient	mg/cmq	> 40,6	≥ 20
5.5.3	Water vapour permeability	mg/cmq h	> 6,8	≥ 2
	Permeability coefficient	mg/cmq	> 55,4	≥ 20
5.8.3	Abrasion resistance (lost volume)	mm ³	56	≤ 150
5.8.4	Flexing resistance (cut increase)	mm	1,5	≤ 4
5.8.6	Interlayer bond strength	N/mm	4,2	≥ 4
6.4.2	Hydrocarbons resistance (ΔV = volume increase)	%	-0,9	≤ 12
5.3.5	SRA : ceramic + detergent solution – flat		0,52	≥ 0,32
	SRA : ceramic + detergent solution – heel (contact angle 7°)		0,48	≥ 0,28
	SRB : steel + glycerol – flat		0,22	≥ 0,18
	SRB : steel + glycerol – heel (contact angle 7°)		0,15	≥ 0,13