



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

Plus: Footwear completely free from metal parts. **COFRA SOFT**, footbed made of scented PU, anatomic, soft and comfortable; the shape of the bottom part guarantees impact energy absorption (shock absorber) and high grip, the upper part absorbs moisture and keeps the foot dry. Firm 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. Padded collar. Belows tongue.

Suggested uses: Footwear for uniforms, occupational and service.

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.

MATERIALS / ACCESSORIES

SAFETY TECHNICAL SPECIFICATIONS

Clause EN ISO	Description	Unit	Cofra result	requirement
203452011				
5.3.2.3	Shock resistance (clearance after shock)	mm	16	14
5.3.2.4	Compression resistance (clearance after compression)	mm	15	14
6.2.1	Penetration resistance	N	To 1100 N	1100
Perforation				
6.2.2.2	Electric resistance			
	- wet	M Ω	204	0.1
	- dry	M Ω	156	1000
6.2.4	Shock absorption	J	> 31	20
5.4.6	Water vapour permeability	mg/cm 2 h	> 5,3	0,8
	Permeability coefficient	mg/cm 2	> 48,7	> 15
6.3.1	Water resistance	minutes	> 60	> 60
5.5.3	Water vapour permeability	mg/cm 2 h	> 5	2
	Permeability coefficient	mg/cm 2	> 40,2	> 20
5.5.3	Water vapour permeability	mg/cm 2 h	> 6,2	2
	Permeability coefficient	mg/cm 2	> 52,5	> 20
5.8.3	Abrasion resistance (lost volume)	mm 3	92	150
5.8.4	Flexing resistance (cut increase)	mm	2	4
5.8.5	Interlayer bond strength	N/mm	> 5	4
6.4.2	Hydrocarbons resistance (ΔV = volume increase)	%	1	12
5.3.5	SRA : ceramic + detergent solution – flat		0,50	0,32
	SRA : ceramic + detergent solution – heel (contact angle 7°)		0,48	0,28
	SRB : steel + glycerol – flat		0,21	0,18
	SRB : steel + glycerol – heel (contact angle 7°)		0,15	0,13

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

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

Vamp Gabardine, breathable, colour beige thickness 1,2 mm

Quarter Leather, breathable, abrasion resistant, colour light brown thickness 0,9 mm

Sole Antistatic dual-density Polyurethane directly injected in the upper:

Outsole: black, high density, slipping resistant, abrasion resistant and hydrocarbons resistant,

Midsole: black, low density, comfortable and anti-shock Adherence coefficient of the sole