



Prod. Ref.	20620-000
Safety cat.	S3 CI SRC
Range of sizes	36 - 48 (3 - 13)
Weight (sz. 8)	580 g
Shape	A
Width	11

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

Plus: METAL FREE. EVANIT footbed, made of EVA and nitrile special compound, with high bearing capacity and variable thickness. Thermoformed, punched and coated with highly breathable fabric. Antistatic thanks to a specific treatment on the surface and to seams made of conductive yarns. **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. **TPU toe cap protection**

Suggested uses: Construction, maintenance, industries.

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.

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
	Cold insulation
	Energy absorption system
Upper	Black water repellent full grain leather thickness 1,6/1,8 mm
Vamp	Felt, breathable, colour dark grey
lining	Thickness 1,2 mm
Quarter	Textile, antibacterial, breathable, abrasion resistant, colour black
lining	thickness 1,2 mm
Sole	Antistatic Polyurethane/TPU directly injected in the upper: Outsole: Ice 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 20345:2011	Description	Unit	Cofra result	Requirement
5.3.2.3	Shock resistance (clearance after shock)	mm	16	≥ 14
5.3.2.4	Compression resistance (clearance after compression)	mm	15,5	≥ 14
6.2.1	Penetration resistance	N	To 1100 N	≥ 1100
			No Perforation	
6.2.2.2	Electric resistance			
	- wet	MΩ	32,6	≥ 0.1
	- dry	MΩ	658	≤ 1000
6.2.3.2	Cold insulation (temp. decrease after 30' C at -17 °C)	°C	6	≤ 10
6.2.4	Shock absorption	J	37	≥ 20
5.4.6	Water vapour permeability	mg/cmq h	> 1	≥ 0,8
	Permeability coefficient	mg/cmq	> 15,3	> 15
6.3.1	Water absorption		14%	≤ 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	> 9,8	≥ 2
	Permeability coefficient	mg/cmq	> 79,7	≥ 20
5.8.3	Abrasion resistance (lost volume)	mm ³	112	≤ 150
5.8.4	Flexing resistance (cut increase)	mm	1	≤ 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		0,62	≥ 0,32
	SRA : ceramic + detergent solution – heel (contact angle 7°)		0,58	≥ 0,28
	SRB : steel + glycerol – flat		0,26	≥ 0,18
	SRB : steel + glycerol – heel (contact angle 7°)		0,19	≥ 0,13