



Prod. Ref.	20520-000
Safety cat.	S3 WR CI SRC
Range of sizes	36 - 48 (3 - 13)
Weight (sz. 8)	680 g
Shape	B
Width	11

Description: Black water repellent full grain leather and breathable textile ankle boot, **GORE-TEX® Performance Comfort Footwear** membrane lining, antistatic, anti-shock, slipping resistant, non metallic **APT Plate** midsole **Zero Perforation**

Plus: 100% 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.** Kick off lug

Suggested uses: Construction, maintenance, industries. Footwear for wet 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.

MATERIALS / ACCESSORIES

SAFETY TECHNICAL SPECIFICATIONS

		Clause EN ISO	Description	Unit	Cofra result	Requirement
20345:2011						
Whole footwear	Water resistance	5.15.1	Water resistance (area of water penetration after 1000 paces in a surface flooded with water)	cm ²	≤ 3	≤ 3
	Complete shoe					
	Toe cap: non metallic TOP RETURN toe cap, impact resistant until 200 J and compression resistant until 1500 kg	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
	Anti perforation midsole: in multi-layers highly tensile fabric, penetration resistant, Zero Perforation	6.2.1	Penetration resistance	N	To 1100 N	≥ 1100
					No Perforation	
	Antistatic shoe: the bottom is fit for the dissipation of electrostatic charges	6.2.2.2	Electric resistance			
			- wet	MΩ	32,6	≥ 0.1
			- dry	MΩ	658	≤ 1000
	Cold insulation	6.2.3.2	Cold insulation (temp. decrease after 30' C at -17 °C)	°C	7	≤ 10
	Energy absorption system	6.2.4	Shock absorption	J	37	≥ 20
Upper	Black water repellent full grain leather thickness 1,6/1,8 mm	5.4.6	Water vapour permeability	mg/cmq h	> 4	≥ 0,8
			Permeability coefficient	mg/cmq	> 39,6	> 15
		6.3.1	Water absorption		20%	≤ 30%
			Water penetration		0,1 g	≤ 0,2 g
Quarter	GORE-TEX® membrane, breathable and abrasion resistant, colour grey thickness 1.2 mm	5.5.3	Water vapour permeability	mg/cmq h	> 4,4	≥ 2
			Permeability coefficient	mg/cmq	> 38,9	≥ 20
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	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

