



<b>Prod. Ref.</b>	20670-000
<b>Safety cat.</b>	S3 CI SRC
<b>Range of sizes</b>	36 - 48 (3 - 13)
<b>Weight (sz. 8)</b>	630 g
<b>Shape</b>	B
<b>Width</b>	11

**Description:** Black water repellent full grain leather and breathable textile ankle boot, textile 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. Leather toe cap protection

**Suggested uses:** Construction, maintenance, industries.

**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 20345:2011	Description	Unit	Cofra result	Requirement		
<b>Complete shoe</b>	<b>Toe cap:</b> non metallic <b>TOP RETURN</b> toe cap, impact resistant until 200 J and compression resistant until 1500 kg	5.3.2.3	Shock resistance (clearance after shock)	mm	<b>16</b>	≥ 14		
		5.3.2.4	Compression resistance (clearance after compression)	mm	<b>15,5</b>	≥ 14		
	<b>Anti perforation midsole:</b> in multi-layers highly tensile fabric, penetration resistant, <b>Zero Perforation</b>	6.2.1	Penetration resistance	N	<b>To 1100 N</b>	≥ 1100		
					<b>No Perforation</b>			
	<b>Antistatic shoe:</b> the bottom is fit for the dissipation of electrostatic charges	6.2.2.2	Electric resistance					
			- wet	MΩ	<b>32,6</b>	≥ 0,1		
			- dry	MΩ	<b>658</b>	≤ 1000		
	<b>Cold insulation</b>	6.2.3.2	Cold insulation (temp. decrease after 30' C at -17 °C)	°C	<b>7</b>	≤ 10		
	<b>Energy absorption system</b>	6.2.4	Shock absorption	J	<b>37</b>	≥ 20		
<b>Upper</b>	Black water repellent full grain leather thickness 1,6/1,8 mm	5.4.6	Water vapour permeability	mg/cmq h	<b>&gt; 1</b>	≥ 0,8		
			Permeability coefficient	mg/cmq	<b>&gt; 15,3</b>	> 15		
		6.3.1	Water absorption		<b>14%</b>	≤ 30%		
			Water penetration		<b>0,0 g</b>	≤ 0,2 g		
<b>Upper</b>	Grey/black water repellent breathable textile	5.4.6	Water vapour permeability	mg/cmq h	<b>&gt; 2,8</b>	≥ 0,8		
			Permeability coefficient	mg/cmq	<b>&gt; 22,8</b>	> 15		
		6.3.1	Water absorption		<b>28%</b>	≤ 30%		
			Water penetration		<b>0,2 g</b>	≤ 0,2 g		
<b>Vamp</b>	Felt, breathable, colour dark grey	5.5.3	Water vapour permeability	mg/cmq h	<b>&gt; 4,7</b>	≥ 2		
<b>lining</b>	Thickness 1,2 mm		Permeability coefficient	mg/cmq	<b>&gt; 40,6</b>	≥ 20		
<b>Quarter</b>	Textile, antibacterial, breathable, abrasion resistant, colour black and light grey thickness 1,2 mm	5.5.3	Water vapour permeability	mg/cmq h	<b>&gt; 6,2</b>	≥ 2		
			Permeability coefficient	mg/cmq	<b>&gt; 50,4</b>	≥ 20		
<b>Sole</b>	Antistatic Polyurethane/TPU directly injected in the upper:	5.8.3	Abrasion resistance (lost volume)	mm <sup>3</sup>	<b>112</b>	≤ 150		
			Outsole: Ice TPU, slipping resistant, abrasion resistant and hydrocarbons resistant.	5.8.4	Flexing resistance (cut increase)	mm	<b>1</b>	≤ 4
			Midsole: Black polyurethane, low density, comfortable and anti-shock.	5.8.6	Interlayer bond strength	N/mm	<b>4,2</b>	≥ 4
				6.4.2	Hydrocarbons resistance (ΔV = volume increase)	%	<b>0,9</b>	≤ 12

SRA : ceramic + detergent solution – flat	<b>0,62</b>	≥ 0,32
SRA : ceramic + detergent solution – heel (contact angle 7°)	<b>0,58</b>	≥ 0,28
SRB : steel + glycerol – flat	<b>0,26</b>	≥ 0,18
SRB : steel + glycerol – heel (contact angle 7°)	<b>0,19</b>	≥ 0,13