



**Prod. Ref.** TN030-000  
**Safety cat.** S3 SRC  
**Range of sizes** 36 - 48 (3 - 13)  
**Weight (sz. 8)** 550 g  
**Shape** A  
**Widht (3 - 6)** 10,5  
**Widht (6,5 - 13)** 11

**Description:** Black water repellent leather shoe, **TRAI-Tex** 100% polyester fabric lining, anti-shock, antistatic, 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

**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

## SAFETY TECHNICAL SPECIFICATIONS

		Clause EN ISO 20345:2011	Description	Unit	Cofra result	requirement
<b>Complete shoe</b>	<b>Toe cap:</b> non metallic <b>FIBERGLASS</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>19,5</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>Upper</b>	<b>Antistatic shoe:</b> the bottom is fit for the dissipation of electrostatic charges	6.2.2.2	Electric resistance			
			- wet	MΩ	<b>71</b>	≥ 0.1
		- dry	MΩ	<b>295</b>	≤ 1000	
		<b>Energy absorption system</b>	6.2.4	Shock absorption	J	<b>35</b>
<b>Upper</b>	Black water repellent grain leather Thickness 1,6/1,8 mm	5.4.6	Water vapour permeability	mg/cm <sup>2</sup> h	<b>&gt; 2,8</b>	≥ 0,8
			Permeability coefficient	mg/cm <sup>2</sup>	<b>&gt; 31,2</b>	> 15
<b>Upper</b>	Black water repellent leather Thickness 1,6/1,8 mm	6.3.1	Water absorption		<b>20%</b>	≤ 30%
			Water penetration		<b>0,0 g</b>	≤ 0,2 g
		5.4.6	Water vapour permeability	mg/cm <sup>2</sup> h	<b>&gt; 2,4</b>	≥ 0,8
			Permeability coefficient	mg/cm <sup>2</sup>	<b>&gt; 23,8</b>	> 15
6.3.1	Water absorption		<b>8%</b>	≤ 30%		
	Water penetration		<b>0,0 g</b>	≤ 0,2 g		
<b>Vamp/Quarter lining</b>	<b>TRAI-Tex</b> fabric, three-dimensional, breathable, abrasion resistant, colour black and orange thickness 1,2 mm	5.5.3	Water vapour permeability	mg/cm <sup>2</sup> h	<b>&gt; 4,2</b>	≥ 2
			Permeability coefficient	mg/cm <sup>2</sup>	<b>&gt; 47,7</b>	≥ 20
<b>Sole</b>	Antistatic dual-density Polyurethane directly injected in the upper: Outsole: black, high density, slipping resistant, abrasion resistant and hydrocarbons resistant, Midsole: dark grey, low density, comfortable and anti-shock Adherence coefficient of the sole	5.8.3	Abrasion resistance (lost volume)	mm <sup>3</sup>	<b>98</b>	≤ 150
		5.8.4	Flexing resistance (cut increase)	mm	<b>4</b>	≤ 4
		5.8.5	Interlayer bond strength	N/mm	<b>4,1</b>	≥ 3
		6.4.2	Hydrocarbons resistance (ΔV = volume increase)	%	<b>8</b>	≤ 12
			SRA : ceramic + detergent solution – flat		<b>0,33</b>	≥ 0,32
		5.3.5	SRA : ceramic + detergent solution – heel (contact angle 7°)		<b>0,30</b>	≥ 0,28
	SRB : steel + glycerol – flat		<b>0,18</b>	≥ 0,18		

