



Prod. Ref.	20630-N01
Safety cat.	S3S SC CI FO SR
Range of sizes	36 - 48 (3 - 13)
Weight (sz. 8)	618 g
Shape	B
Width	11

Description: Brown water repellent Pull-Up nubuck ankle boot, 100% polyamide fabric lining, antistatic, anti-shock, slipping resistant, non metallic **APT PLUS** 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. **ANTITORSION 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; 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 20345:2022	Description	Unit	Cofra result	Requirement
Whole footwear	Toe cap: non metallic TOP RETURN toe cap, impact resistant until 200 J and compression resistant until 1500 kg	5.3.2.6	Shock resistance (clearance after shock)	mm	14,5	≥ 14
		5.3.2.7	Compression resistance (clearance after compression)	mm	15	≥ 14
	Anti perforation midsole: in multi-layers highly tensile fabric, penetration resistant, Zero Perforation	6.2.1	Penetration resistance (PS requirement with Ø 3,0 mm nail)	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	269,35	≥ 0.1
			- dry	MΩ	465,33	≤ 1000
	Cold insulation	6.2.3.2	Cold insulation (temp. decrease after 30' C at -17 °C)	°C	7,5	≤ 10
	Energy absorption system	6.2.4	Shock absorption	J	25	≥ 20
	Upper Brown water repellent Pull-Up nubuck thickness 1,8/2,0 mm	5.4.6	Water vapour permeability	mg/cmq h	> 4,1	≥ 0,8
			Permeability coefficient	mg/cmq	> 50,5	> 15
Upper		6.3.1	Water absorption		10%	≤ 30%
			Water penetration		0,0 g	≤ 0,2 g
		5.4.6	Water vapour permeability	mg/cmq h	> 1	≥ 0,8
			Permeability coefficient	mg/cmq	> 15,4	> 15
		6.3.1	Water absorption		6%	≤ 30%
			Water penetration		0,0 g	≤ 0,2 g
Vamp	Felt, breathable, colour dark grey	5.5.4	Water vapour permeability	mg/cmq h	> 5	≥ 2
lining	Thickness 1,2 mm		Permeability coefficient	mg/cmq	> 41,9	≥ 20
Quarter	100% polyamide fabric, breathable, abrasion resistant, colour black	5.5.4	Water vapour permeability	mg/cmq h	> 55,5	≥ 2
lining	thickness 1,2 mm		Permeability coefficient	mg/cmq	> 444,1	≥ 20
Sole	Antistatic Polyurethane/TPU made of recycled rubber granules , directly injected in the upper: Outsole: ice TPU, slipping resistant, abrasion resistant and hydrocarbons resistant. Midsole: black polyurethane, low density, comfortable and anti-shock.	5.8.4	Abrasion resistance (lost volume)	mm ³	117	≤ 250
		5.8.5	Flexing resistance (cut increase)	mm	2,7	≤ 4
		5.8.7	Interlayer bond strength	N/mm	3,9	≥ 3
		6.4.2	Hydrocarbons resistance (ΔV = volume increase)	%	2,9	≤ 12

Adherence coefficient of the sole (Slip resistance)

5.3.5.2	ceramic + detergent solution – forepart (contact angle 7°)	0,54	≥ 0,36
	ceramic + detergent solution – heel (contact angle 7°)	0,49	≥ 0,31
6.2.10	SR : ceramic + glycerol – forepart (contact angle 7°)	0,36	≥ 0,22
	SR : ceramic + glycerol – heel (contact angle 7°)	0,45	≥ 0,19