



Prod. Ref.	80220-000
Safety cat.	S3 WR HRO SRC
Range of sizes	39 - 48 (6 - 13)
Weight (sz. 8)	780 g
Shape	B
Width	11

Description: Brown/black water repellent Pull-Up nubuck ankle boot, **GORE-TEX[®] Performance Comfort Footwear** membrane lining, antistatic, anti-shock, slipping resistant, non metallic **APT Plate** midsole **Zero Perforation**

Plus: Full **SOFT-BED** footbed, made of soft and scented polyurethane, antistatic, anatomic, holed, soft and comfortable. The upper layer absorb moisture and keep the foot dry. Cold and heat insulation. Arch 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. Outsole resistant to +300°C (1 minute contact). **Leather toe cap protection**

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

Whole footwear	Water resistance	
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	
Upper	Energy absorption system Brown water repellent Pull-Up nubuck thickness 1,6/1,8 mm	
Lining	GORE-TEX[®] membrane, breathable and abrasion resistant, colour grey thickness 1.2 mm	
Sole	Polyurethane/Nitrile rubber, antistatic, resistant to high temperatures, directly injected in the upper:	
	Outsole: black nitrile rubber, slipping resistant, abrasion resistant, hydrocarbons resistant and heat resistant.	
	Midsole: black polyurethane, low density, comfortable and anti-shock.	
	Adherence coefficient of the sole	

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SAFETY TECHNICAL SPECIFICATIONS

Clause EN ISO 20345:2011	Description	Unit	Cofra result	requirement
5.15.1	Water resistance (area of water penetration after 1000 paces in a surface flooded with water)	cm ²	≤ 3	≤ 3
5.3.2.3	Shock resistance (clearance after shock)	mm	15	≥ 14
5.3.2.4	Compression resistance (clearance after compression)	mm	14,5	≥ 14
6.2.1	Penetration resistance	N	To 1100 N	≥ 1100
			No Perforation	
6.2.2.2	Electric resistance			
	- wet	MΩ	45	≥ 0.1
	- dry	MΩ	880	≤ 1000
6.2.4	Shock absorption	J	32	≥ 20
5.4.6	Water vapour permeability	mg/cmq h	> 4,2	≥ 0,8
	Permeability coefficient	mg/cmq	> 42,9	> 15
6.3.1	Water absorption		28%	≤ 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	> 38,2	≥ 20
5.8.3	Abrasion resistance (lost volume)	mm ³	105	≤ 150
5.8.4	Flexing resistance (cut increase)	mm	1,5	≤ 4
5.8.6	Interlayer bond strength	N/m	4	≥ 3
6.4.4	Hot resistance (300 °C)	---	any melting	any melting
6.4.2	Hydrocarbons resistance (ΔV = volume increase)	%	1,6	≤ 12
5.3.5	SRA : ceramic + detergent solution – flat		0,54	≥ 0,32
	SRA : ceramic + detergent solution – heel (contact angle 7°)		0,50	≥ 0,28
	SRB : steel + glycerol – flat		0,23	≥ 0,18
	SRB : steel + glycerol – heel (contact angle 7°)		0,18	≥ 0,13