



Prod. Ref. 80451-000
Safety cat. S3 HRO SRC
Range of sizes 39 - 47
Weight (sz. 42) 700 g
Shape B
Wide 11

Description: Black water repellent printed leather boot, **Texelle** lining, antistatic, anti-shock, slipping resistant, non metallic **APT Plate** midsole.

Plus: **SOFT-Bed** footbed, made of soft PU, removable, covered with cloth. Outsole resistant to +300°C (1 minute contact). Padded collar.

Suggested uses: Engineering jobs, building industry, maintenance jobs.

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

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

Antistatic shoe: the bottom is fit for the dissipation of electrostatic charges

Upper **Energy absorption system:** polyurethane low density and heel profile

Black water repellent printed leather
thickness 1,8 mm

Vamp Felt, breathable, colour dark grey

lining Thickness 1,2 mm

Quarter **Texelle**, breathable, abrasion resistant, colour black

lining Thickness 1,2 mm

Sole Antistatic polyurethane – Nitrile rubber, directly injected in the upper:

Outsole: black Nitrile rubber, slipping resistant, abrasion resistant, hydrocarbons resistant, and hot resistant.

Midsole: brown polyurethane low density, comfortable and anti-shock.

Adherence coefficient of the sole

SAFETY TECHNICAL SPECIFICATIONS

		Clause EN ISO 20344 :2004	Description	Unit	Cofra result	EN ISO 20345:2004 requirement
		5.3.2.3	Shock resistance (clearance after shock)	mm	15,5	≥ 14
		5.3.2.4	Compression resistance (clearance after compression)	mm	15,1	≥ 14
		6.2.1.5.2	Penetration resistance	N	1300	≥ 1100
		6.2.2.2	Electric resistance			
			- wet	MΩ	240	≥ 0.1
			- dry	MΩ	618	≤ 1000
		6.2.4	Shock absorption	J	> 33,5	≥ 20
		5.4.6	Water vapour permeability	mg/cmq h	> 1,4	≥ 0,8
			Permeability coefficient	mg/cmq	> 19,1	> 20
		6.3.1	Water resistance	minutes	> 60	> 60
		5.5.3	Water vapour permeability	mg/cmq h	> 4,7	≥ 2
			Permeability coefficient	mg/cmq	> 40,6	≥ 30
		5.5.3	Water vapour permeability	mg/cmq h	> 7	≥ 2
			Permeability coefficient	mg/cmq	> 56,5	≥ 30
		5.8.3	Abrasion resistance (lost volume)	mm ³	124	≤ 150
		5.8.4	Flexing resistance (cut increase)	mm	1	≤ 4
		5.8.6	Interlayer bond strength	N/m	> 5	≥ 4
		6.4.4	Hot resistance (300 °C)	---	any melting	any melting
		6.4.5	Hydrocarbons resistance (ΔV = volume increase)	%	+ 1,4	≤ + 12
		5.3.5	SRA : ceramic + detergent solution – flat		0,56	≥ 0,32
			SRA : ceramic + detergent solution – heel (contact angle 7°)		0,51	≥ 0,28
			SRB : steel + glycerol – flat		0,25	≥ 0,18
			SRB : steel + glycerol – heel (contact angle 7°)		0,19	≥ 0,13

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