PRODUCT SHEET

MALAWI S3 CI HRO SRC

Prod. Ref.	28131-001
Safety cat.	S3 CI HRO SRC
Range of sizes	39 - 48
Weight (sz. 42)	840 g
Shape	C
Wide	11

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

Plus: Footwear completely free from metal parts. **THINSULATE➔ B200** cold insulation. Footbed **AIR** made of EVA and fabric, antistatic, it guarantees high stability thanks to its different thicknesses in the plantar area. Outsole resistant to +300°C (1 minute contact).

Suggested uses: Engineering jobs, maintenance jobs, buildings, 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

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	
	Cold insulation	
	Energy absorption system: polyurethane low density and heel profile	
Upper	Black water repellent printed leather	
	thickness 2,0 mm	
Quarter	Ecological fur, breathable, abrasion resistant, colour beige	
lining	thickness 1,2 mm	
Sole	Antistatic polyurethane - rubber, directly injected in the upper:	
	Outsole: black rubber, slipping resistant, abrasion resistant, hydrocarbons resistant, and hot resistant.	
	Midsole: black polyurethane low density, comfortable and anti-shock.	
	Adherence coefficient of the sole	

SAFETY TECHNICAL SPECIFICATIONS

Clause EN ISO 20345	Description	Unit	Cofra result	Requirement
5.3.2.3	Shock resistance (clearance after shock)	mm	**14,7**	➡ 14
5.3.2.4	Compression resistance (clearance after compression)	mm	**14,2**	➡ 14
6.2.1.5.2	Penetration resistance	N	**1400**	➡ 1100
6.2.2.2	Electric resistance			
	- wet	MΩ	**844**	➡ 0.1
	- dry	MΩ	**540**	➚ 1000
6.2.3.2	Cold insulation (temp. decrease after 30' C at -17 °C)	°C	**6**	➚ 10
6.2.4	Shock absorption	J	**> 46**	➡ 20
5.4.6	Water vapour permeability	mg/cmq h	**> 2**	➡ 0,8
	Permeability coefficient	mg/cmq	**> 24,5**	> 15
6.3.1	Water resistance	minutes	**> 60**	> 60
5.5.3	Water vapour permeability	mg/cmq h	**> 6**	➡ 2
	Permeability coefficient	mg/cmq	**> 48,2**	➡ 20
5.8.3	Abrasion resistance (lost volume)	mm^3	**127**	➚ 150
5.8.4	Flexing resistance (cut increase)	mm	**2**	➚ 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 (↗V = volume increase)	%	**+ 4,3**	➚ 12
5.3.5	SRA : ceramic + detergent solution – flat		**0,51**	➡ 0,32
	SRA : ceramic + detergent solution – heel (contact angle 7°)		**0,48**	➡ 0,28
	SRB : steel + glycerol – flat		**0,23**	➡ 0,18
	SRB : steel + glycerol – heel (contact angle 7°)		**0,19**	➡ 0,13