COFRA®
BORN TO WORK

PRODUCT SHEET

GUADARRAMA S3 HI CI HRO SRC

Prod. Ref.	17680-000
Safety cat.	S3 HI CI HRO SRC
Range of sizes	40 - 47 (6,5 - 12)
Weight (sz. 8)	760 g
Shape	B
Width	11

Description: Brown water repellent Pull-Up nubuck ankle boot, **SANY-DRY®** lining, antistatic, anti-shock, slipping resistant, non metallic **APT Plate** midsole **Zero Perforation**.

Plus: **HEAT BARRIER** footbed made of soft and scented polyurethane, antistatic, anatomic, insulating against high temperatures, covered with cloth. The thermal comfort inside the footwear is granted thanks to the special polyurethane compound devised to give high insulation. **ANTI TORSION 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 unwilled torsion. Stitched sole, fully made of nitrile rubber resistant to +300 °C (1 minute contact). Padded collar. Leather toe cap protection

Suggested uses: Footwear for iron industry, steel industry, waste management

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, **Zero Perforation**
	Antistatic shoe: the bottom is fit for the dissipation of electrostatic charges
	Heat insulation
	Cold insulation
	Energy absorption system
Upper	Brown water repellent Pull-Up nubuck
	thickness 1,8/2,0 mm
Vamp lining	Felt, breathable, colour dark grey
	Thickness 1,2 mm
Quarter lining	**SANY-DRY®**, breathable, antibacterial, abrasion resistant, colour light green
	thickness 1,2 mm
Sole	Nitrile rubber, antistatic, resistant to high temperatures, directly applied on the upper:
	colour black, slipping resistant, abrasion resistant, hydrocarbons resistant, comfortable and
	anti-shock.

SAFETY TECHNICAL SPECIFICATIONS

Clause EN ISO 20345:2011	Description	Unit	Cofra result	requirement
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** **No Perforation**	≥ 1100
6.2.2.2	Electric resistance			
	- wet	MΩ	**146**	≥ 0.1
	- dry	MΩ	**538**	≤ 1000
6.2.3.1	Heat insulation (temp. increase after 30' at **150** °C)	°C	**14**	≤ 22
6.2.3.2	Cold insulation (temp. decrease after 30' C at -17 °C)	°C	**6**	≤ 10
6.2.4	Shock absorption	J	**35**	≥ 20
5.4.6	Water vapour permeability	mg/cmq h	**> 4,5**	≥ 0,8
	Permeability coefficient	mg/cmq	**> 44,6**	> 15
6.3.1	Water absorption		**20%**	≤ 30%
	Water penetration		**0,1 g**	≤ 0,2 g
5.5.3	Water vapour permeability	mg/cmq h	**> 4,8**	≥ 2
	Permeability coefficient	mg/cmq	**> 39,9**	≥ 20
5.5.3	Water vapour permeability	mg/cmq h	**> 9,6**	≥ 2
	Permeability coefficient	mg/cmq	**> 79,6**	≥ 20
5.8.3	Abrasion resistance (lost volume)	mm^3	**78**	≤ 150
5.8.4	Flexing resistance (cut increase)	mm	**2**	≤ 4
6.4.4	Hot resistance (300 °C)	----	**any melting**	any melting
6.4.2	Hydrocarbons resistance (ΔV = volume increase)	%	**1,6**	≤ 12

Emesso dal Laboratorio Prove Tecniche

Adherence coefficient of the sole	5.3.5	SRA : ceramic + detergent solution – flat	**0,49**	≥ 0,32
		SRA : ceramic + detergent solution – heel (contact angle 7°)	**0,48**	≥ 0,28
		SRB : steel + glycerol – flat	**0,22**	≥ 0,18
		SRB : steel + glycerol – heel (contact angle 7°)	**0,2**	≥ 0,13