COFRA®
BORN TO WORK

PRODUCT SHEET

OFF SHORE S3 CI HRO SRC

Prod. Ref.	13650-000
Safety cat.	S3 CI HRO SRC
Range of sizes	39 - 47 (6 - 12)
Weight (sz. 9)	890 g
Shape	C
Widht	12

Description: Black water repellent leather ranger, **TEXELLE** lining, antistatic, anti-shock, slipping resistant, non metallic **APT Plate** midsole **Zero Perforation**

Plus: **COLD BARRIER** anatomic, antistatic and scented footbed, insulating against low temperatures. Fleece lined. The thermal comfort inside the footwear is granted thanks to the specials PU compound devised to give high insulation. Sole COLD DEFENDER PU/Nitrile rubber resistant to low temperatures. **Cold Defender PU** is a special PU compound which guarantees higher performances than the ordinary PU for mechanical resistance to low temperatures and thermal insulation and it resist under extreme temperatures up to -25°C. The rubber outsole design has been devised to improve the slip resistance and enhance the comfort even on frozen and rambling surfaces. **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. Internal side zip

Suggested uses: Engineering jobs, maintenance jobs, buildings, industries.

Care and maintenance: 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 fiber glass 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
	Cold insulation
	Energy absorption system
Upper	Black water repellent leather
	thickness 1,8/2,0 mm
Vamp	Felt, breathable, colour grey
lining	Thickness 1,2 mm
Lining	**TEXELLE**, breathable, abrasion resistant, colour black
	thickness 1,2 mm
Sole	**COLD DEFENDER PU**/Nitrile rubber, antistatic, resistant to low temperatures, directly injected in the upper:
	Outsole: black nitrile rubber, slipping resistant, abrasion resistant, hydrocarbons

SAFETY TECHNICAL SPECIFICATIONS

Clause EN ISO 20345:2011	Description	Unit	Cofra result	requirement
5.3.2.3	Shock resistance (clearance after shock)	mm	**14**	≥ 14
5.3.2.4	Compression resistance (clearance after compression)	mm	**16**	≥ 14
6.2.1	Penetration resistance	N	**To 1100 N**	≥ 1100
			No Perforation	
6.2.2.2	Electric resistance			
	- wet	MΩ	**743**	≥ 0.1
	- dry	MΩ	**871**	≤ 1000
6.2.3.2	Cold insulation (temp. decrease after 30' C at -17 °C)	°C	**7**	≤ 10
6.2.4	Shock absorption	J	**38**	≥ 20
5.4.6	Water vapour permeability	mg/cmq h	**> 1,2**	≥ 0,8
	Permeability coefficient	mg/cmq	**> 17,3**	> 15
6.3.1	Water resistance	minutes	**18%**	> 60
			0,0 g	
5.5.3	Water vapour permeability	mg/cmq h	**> 4,7**	≥ 2
	Permeability coefficient	mg/cmq	**> 40,6**	≥ 20
5.5.3	Water vapour permeability	mg/cmq h	**> 6,6**	≥ 2
	Permeability coefficient	mg/cmq	**> 53**	≥ 20
5.8.3	Abrasion resistance (lost volume)	mm^3	**136**	≤ 150
5.8.4	Flexing resistance (cut increase)	mm	**1**	≤ 4
5.8.6	Interlayer bond strength	N/m	**> 5**	≥ 4

Emesso dal Laboratorio Prove Tecniche

	resistant and heat resistant.	6.4.4	Hot resistance (300 °C)	----	**any melting**	any melting
Midsole:	**Cold Defender PU** resistant to -25°C, colour black	6.4.2	Hydrocarbons resistance (ΔV = volume increase)	%	**+ 3,6**	≤ 12
Adherence coefficient of the sole		5.3.5	SRA : ceramic + detergent solution – flat		**0,43**	≥ 0,32
			SRA : ceramic + detergent solution – heel (contact angle 7°)		**0,38**	≥ 0,28
			SRB : steel + glycerol – flat		**0,36**	≥ 0,18
			SRB : steel + glycerol – heel (contact angle 7°)		**0,18**	≥ 0,13