

Prod. Ref.	22360-000
Safety cat.	S3 WR CI SRC
Range of sizes	40 - 47 (6,5 - 12)
Weight (sz. 8)	730 g
Shape	C
Width	11

**Description:** Black water repellent nubuck and nylon **CORDURA®** ranger boot, **COFRA-TEX ICE-STOP** waterproof membrane lining, antistatic, anti-shock, slipping resistant, non metallic **APT Plate** midsole **Zero Perforation**.

**Plus:** **COFRA-TEX ICE-STOP** waterproof sock-shaped membrane with “**WATERPRO-TECH**” construction system that guarantees waterproofness, superb breathability and **thermal insulation**. Water does not penetrate into the footwear but the vapour molecules evaporate through the membrane keeping the foot dry. The membrane, directly stitched in the internal superior part of the upper, makes the footwear totally waterproof, preventing water leaking both sideways and from the plantar area. **AIR** footbed, made of EVA and fabric, antistatic, anatomic, holed. It guarantees high stability thanks to its different kinds of thickness in the plantar area. 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. Bellows tongue. Perfumed sole. **Polyurethane 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

### SAFETY TECHNICAL SPECIFICATIONS

		Clause EN ISO 20345:2011	Description	Unit	Cofra result	Requirement
Whole footwear	Water resistance	5.15.1	Water resistance (area of water penetration after 1000 paces in a surface flooded with water)	cm <sup>2</sup>	≤ 3	≤ 3
	Complete shoe	5.3.2.3	Shock resistance (clearance after shock)	mm	14	≥ 14
		5.3.2.4	Compression resistance (clearance after compression)	mm	14,5	≥ 14
	Anti perforation midsole: in multi-layers highly tensile fabric, penetration resistant, <b>Zero Perforation</b>	6.2.1	Penetration resistance	N	To 1100 N	≥ 1100
	Antistatic shoe: the bottom is fit for the dissipation of electrostatic charges	6.2.2.2	Electric resistance		No Perforation	
			- wet	MΩ	123	≥ 0.1
			- dry	MΩ	336	≤ 1000
	Cold insulation	6.2.3.2	Cold insulation (temp. decrease after 30' C at -17 °C)	°C	6,3	≤ 10
	Energy absorption system: polyurethane low density and heel profile	6.2.4	Shock absorption	J	27	≥ 20
Upper	Black water repellent Nubuck thickness 1,6/1,8 mm	5.4.6	Water vapour permeability	mg/cmq h	> 4,4	≥ 0,8
			Permeability coefficient	mg/cmq	> 44,5	> 15
		6.3.1	Water absorption		21%	≤ 30%
			Water penetration		0,1 g	≤ 0,2 g
Upper	Black water repellent nylon <b>CORDURA®</b>	5.4.6	Water vapour permeability	mg/cmq h	> 4,7	≥ 0,8
			Permeability coefficient	mg/cmq	> 46,9	> 15
		6.3.1	Water absorption		30%	≤ 30%
			Water penetration		0,1 g	≤ 0,2 g
Lining	COFRA-TEX ICE-STOP membrane, breathable and abrasion resistant, colour grey thickness 1.2 mm	5.5.3	Water vapour permeability	mg/cmq h	> 11,5	≥ 2
			Permeability coefficient	mg/cmq	> 95	≥ 20
Sole	Antistatic dual-density polyurethane directly injected in the upper: Outsole: black, high density, slipping resistant, abrasion	5.8.3	Abrasion resistance (lost volume)	mm <sup>3</sup>	53	≤ 150
		5.8.4	Flexing resistance (cut increase)	mm	1	≤ 4

resistant and hydrocarbons resistant,  
Midsole: black, low density, comfortable and anti-shock  
Adherence coefficient of the sole

5.8.6	Interlayer bond strength	N/mm	> <b>5</b>	≥ 4
6.4.2	Hydrocarbons resistance ( $\Delta V$ = volume increase)	%	+ <b>0,2</b>	≤ 12
5.3.5	SRA : ceramic + detergent solution – flat		<b>0,42</b>	≥ 0,32
	SRA : ceramic + detergent solution – heel (contact angle 7°)		<b>0,34</b>	≥ 0,28
	SRB : steel + glycerol – flat		<b>0,20</b>	≥ 0,18
	SRB : steel + glycerol – heel (contact angle 7°)		<b>0,14</b>	≥ 0,13