

**Prod. Ref.** FW040-000  
**Safety cat.** S3 CI SRC  
**Range of sizes** 36 - 48  
**Weight (sz. 42)** 710 g  
**Shape** C  
**Wide** 11

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

**Plus:** Footbed **AIR** made of EVA and fabric, antistatic, it guarantees high stability thanks to its different thicknesses in the plantar area. Dual density PU with an aggressive style. The prominent toe cap and heel area protect the upper from wearing and abrasion. Padded collar, bellows tongue.

**Suggested uses:** Engineering jobs, maintenance jobs, 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

### SAFETY TECHNICAL SPECIFICATIONS

		Clause EN ISO 20345:2011	Description	Unit	Cofra result	Requirement
Complete shoe	<b>Toe cap:</b> non metallic fiber glass toe cap, impact resistant until 200 J and compression resistant until 1500 kg	5.3.2.3	Shock resistance (clearance after shock)	mm	<b>16</b>	≥ 14
		5.3.2.4	Compression resistance (clearance after compression)	mm	<b>15</b>	≥ 14
	<b>Anti perforation midsole:</b> in multi-layers highly tensile fabric, penetration resistant, <b>Zero Perforation</b>	6.2.1	Penetration resistance	N	<b>To 1100 N</b>	≥ 1100
					<b>No perforation</b>	
	<b>Antistatic shoe:</b> the bottom is fit for the dissipation of electrostatic charges	6.2.2.2	Electric resistance			
			- wet	MΩ	<b>120</b>	≥ 0.1
			- dry	MΩ	<b>820</b>	≤ 1000
	<b>Cold insulation</b>	6.2.3.2	Cold insulation (temp. decrease after 30' at -17 °C)	°C	<b>8</b>	≤ 10
	<b>Energy absorption system:</b> polyurethane low density and heel profile	6.2.4	Shock absorption	J	<b>&gt; 34</b>	≥ 20
	<b>Upper</b> Black water repellent printed leather thickness 1,6/1,8 mm	5.4.6	Water vapour permeability	mg/cmq h	<b>&gt; 2,2</b>	≥ 0,8
			Permeability coefficient	mg/cmq	<b>&gt; 26,1</b>	> 15
Quarter	Beige ecological fur, highly cold insulating, abrasion resistant, breathable	6.3.1	Water resistance	minutes	<b>&gt; 60</b>	> 60
		5.5.3	Water vapour permeability	mg/cmq h	<b>&gt; 4,3</b>	≥ 2
lining	thickness 1,2 mm		Permeability coefficient	mg/cmq	<b>&gt; 36,6</b>	≥ 20
Sole	Antistatic double-density Polyurethane directly injected in the upper: Outsole: black, high density, slipping resistant, abrasion resistant and hydrocarbons resistant, Midsole: black, low density, comfortable and anti-shock Adherence coefficient of the sole	5.8.3	Abrasion resistance (lost volume)	mm <sup>3</sup>	<b>67</b>	≤ 150
		5.8.4	Flexing resistance (cut increase)	mm	<b>3</b>	≤ 4
		5.8.6	Interlayer bond strength	N/mm	<b>&gt; 5</b>	≤ 4
		6.4.2	Hydrocarbons resistance (ΔV = volume increase)	%	<b>0,8</b>	≤ 12
		5.3.5	SRA : ceramic + detergent solution – flat		<b>0,43</b>	≥ 0,32
			SRA : ceramic + detergent solution – heel (contact angle 7°)		<b>0,4</b>	≥ 0,28
			SRB : steel + glycerol – flat		<b>0,2</b>	≥ 0,18
			SRB : steel + glycerol – heel (contact angle 7°)		<b>0,15</b>	≥ 0,13

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