

**Prod. Ref.** FW090-000  
**Safety cat.** S3 SRC  
**Range of sizes** 39 - 47 (6 - 12)  
**Weight** (sz. 8) 600 g  
**Shape** A  
**Width** 11

**Description:** Black water repellent printed leather shoe, **SANY-DRY®** lining, anti-shock, antistatic, 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:** Construction, maintenance, 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

		Clause EN ISO 20345:2011	
<b>Complete shoe</b>	<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)
		5.3.2.4	Compression resistance (clearance after compression)
	<b>Anti perforation midsole:</b> in multi-layers highly tensile fabric, penetration resistant, <b>Zero Perforation</b>	6.2.1	Penetration resistance
	<b>Antistatic shoe:</b> the bottom is fit for the dissipation of electrostatic charges	6.2.2.2	Electric resistance
			- wet
			- dry
	<b>Energy absorption system:</b> polyurethane low density and heel profile	6.2.4	Shock absorption
<b>Upper</b>	Black water repellent printed leather	5.4.6	Water vapour permeability
	Thickness 1,6/1,8 mm		Permeability coefficient
		6.3.1	Water absorption
			Water penetration
<b>Vamp</b>	Felt, breathable, colour dark grey	5.5.3	Water vapour permeability
<b>lining</b>	Thickness 1,2 mm		Permeability coefficient
<b>Quarter</b>	<b>SANY-DRY®</b> , breathable, abrasion resistant, colour beige	5.5.3	Water vapour permeability
<b>lining</b>	thickness 1,2 mm		Permeability coefficient
<b>Sole</b>	Antistatic dual-density Polyurethane directly injected in the upper:	5.8.3	Abrasion resistance (lost volume)
	Outsole: black, high density, slipping resistant, abrasion resistant and hydrocarbons resistant,	5.8.4	Flexing resistance (cut increase)
	Midsole: black, low density, comfortable and anti-shock	5.8.5	Interlayer bond strength
	Adherence coefficient of the sole	6.4.2	Hydrocarbons resistance ( $\Delta V$ = volume increase)
		5.3.5	SRA : ceramic + detergent solution – flat
			SRA : ceramic + detergent solution – heel (contact angle 7°)
			SRB : steel + glycerol – flat
			SRB : steel + glycerol – heel (contact angle 7°)

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### SAFETY TECHNICAL SPECIFICATIONS

Description	Unit	Cofra result	requirement
Shock resistance (clearance after shock)	mm	<b>16</b>	≥ 14
Compression resistance (clearance after compression)	mm	<b>15</b>	≥ 14
Penetration resistance	N	<b>To 1100 N</b>	≥ 1100
Electric resistance		<b>No Perforation</b>	
- wet	MΩ	<b>120</b>	≥ 0,1
- dry	MΩ	<b>820</b>	≤ 1000
Shock absorption	J	<b>34</b>	≥ 20
Water vapour permeability	mg/cm q h	<b>&gt; 2,2</b>	≥ 0,8
Permeability coefficient	mg/cm q	<b>&gt; 26,1</b>	> 15
Water absorption		<b>16%</b>	≤ 30%
Water penetration		<b>0,0 g</b>	≤ 0,2 g
Water vapour permeability	mg/cm q h	<b>&gt; 5,2</b>	≥ 2
Permeability coefficient	mg/cm q	<b>&gt; 42,2</b>	≥ 20
Water vapour permeability	mg/cm q h	<b>&gt; 12,1</b>	≥ 2
Permeability coefficient	mg/cm q	<b>&gt; 169,3</b>	≥ 20
Abrasion resistance (lost volume)	mm <sup>3</sup>	<b>67</b>	≤ 150
Flexing resistance (cut increase)	mm	<b>3</b>	≤ 4
Interlayer bond strength	N/mm	<b>&gt; 5</b>	≥ 4
Hydrocarbons resistance ( $\Delta V$ = volume increase)	%	<b>0,8</b>	≤ 12
SRA : ceramic + detergent solution – flat		<b>0,43</b>	≥ 0,32
SRA : ceramic + detergent solution – heel (contact angle 7°)		<b>0,40</b>	≥ 0,28
SRB : steel + glycerol – flat		<b>0,20</b>	≥ 0,18
SRB : steel + glycerol – heel (contact angle 7°)		<b>0,15</b>	≥ 0,13

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