



<b>Prod. Ref.</b>	30150-000
<b>Safety cat.</b>	S1 P SRC
<b>Range of sizes</b>	36 - 47 (3 - 12)
<b>Weight (sz. 8)</b>	560 g
<b>Shape</b>	A
<b>Width</b>	11

**Description:** Grey/black leather and highly breathable **BREATHEX** fabric with 3D texture shoe, **SPHERA** lining, antistatic, anti-shock, slipping resistant, non metallic **APT Plate** midsole **Zero Perforation**

**Plus:** **COFRA SOFT** footbed, made of scented polyurethane, holed, antistatic, anatomic, soft and comfortable; the shape of the bottom part guarantees impact energy absorption (shock absorber) and high grip; the upper part absorbs moisture and keeps the foot dry. 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. Perfumed sole. Leather toe cap protection

**Suggested uses:** Warehouses, transportation sector, 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

<b>Complete shoe</b>	<b>Toe cap:</b> <b>ALUMINIUM</b> made, ultra light, impact resistant until 200 J and compression resistant until 1500 kg
	<b>Anti perforation midsole:</b> in multi-layers highly tensile fabric, penetration resistant, <b>Zero Perforation</b>
	<b>Antistatic shoe:</b> the bottom is fit for the dissipation of electrostatic charges
	<b>Energy absorption system</b>
<b>Upper</b>	Grey leather thickness 1,6/1,8 mm
<b>Upper</b>	<b>BREATHEX</b> , 3D texture, highly breathable, abrasion resistant, colour dark grey
<b>Vamp</b>	Felt, breathable, colour dark grey
<b>lining</b>	Thickness 1,2 mm
<b>Quarter</b>	<b>SPHERA</b> , breathable, antibacterial, abrasion resistant, colour yellow
<b>lining</b>	thickness 1,2 mm
<b>Sole</b>	Antistatic Polyurethane/TPU directly injected in the upper: Outsole: Ice TPU, slipping resistant, abrasion resistant and hydrocarbons resistant. Midsole: Black polyurethane, low density, comfortable and anti-shock.
	Adherence coefficient of the sole

## SAFETY TECHNICAL SPECIFICATIONS

	Clause EN ISO 20345:2011	Description	Unit	Cofra result	Requirement
	5.3.2.3	Shock resistance (clearance after shock)	mm	<b>15,5</b>	≥ 14
	5.3.2.4	Compression resistance (clearance after compression)	mm	<b>14,5</b>	≥ 14
	6.2.1	Penetration resistance	N	<b>To 1100 N</b>	≥ 1100
				<b>No perforation</b>	
	6.2.2.2	Electric resistance			
		- wet	MΩ	<b>430</b>	≥ 0.1
		- dry	MΩ	<b>860</b>	≤ 1000
	6.2.4	Shock absorption	J	<b>32</b>	≥ 20
	5.4.6	Water vapour permeability	mg/cmq h	<b>&gt; 2,4</b>	≥ 0,8
		Permeability coefficient	mg/cmq	<b>&gt; 22,2</b>	> 15
	<b>5.4.6</b>	<b>Water vapour permeability</b>	<b>mg/cmq h</b>	<b>&gt; 8,9</b>	≥ 0,8
		<b>Permeability coefficient</b>	<b>mg/cmq</b>	<b>&gt; 71,2</b>	> 15
	<b>5.4.3</b>	<b>Tear resistance</b>	<b>N</b>	<b>88,4</b>	≥ 60
		<b>Abrasion resistance</b>	<b>Cycle</b>	<b>&gt; 100.000</b>	
	5.5.3	Water vapour permeability	mg/cmq h	<b>&gt; 4,7</b>	≥ 2
		Permeability coefficient	mg/cmq	<b>&gt; 40,6</b>	≥ 20
	5.5.3	Water vapour permeability	mg/cmq h	<b>&gt; 8,6</b>	≥ 2
		Permeability coefficient	mg/cmq	<b>&gt; 69,2</b>	≥ 20
	5.8.3	Abrasion resistance (lost volume)	mm <sup>3</sup>	<b>33</b>	≤ 150
	5.8.4	Flexing resistance (cut increase)	mm	<b>1</b>	≤ 4
	5.8.5	Interlayer bond strength	N/mm	<b>&gt; 5</b>	≥ 4
	6.4.2	Hydrocarbons resistance (ΔV = volume increase)	%	<b>-1,5</b>	≤ 12
	5.3.5	SRA : ceramic + detergent solution – flat		<b>0,51</b>	≥ 0,32
		SRA : ceramic + detergent solution – heel (contact angle 7°)		<b>0,43</b>	≥ 0,28
		SRB : steel + glycerol – flat		<b>0,23</b>	≥ 0,18
		SRB : steel + glycerol – heel (contact angle 7°)		<b>0,16</b>	≥ 0,13

Distributed by:

