



**Prod. Ref.** 22090-000  
**Safety cat.** S3 SRC  
**Range of sizes** 39 - 47 (6 - 12)  
**Weight** (sz. 8) 560 g  
**Shape** A  
**Width** 11

**Description:** Black water repellent leather shoe, **SANY-DRY®** lining, antistatic, anti-shock, slipping resistant, non metallic **APT Plate** midsole **Zero Perforation**.

**Plus:** **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, padded collar. Perfumed sole. Leather toe cap protection

**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

|                      |  |  |
|----------------------|--|--|
| <b>Complete shoe</b> | <b>Toe cap:</b> steel made, varnished with epoxy resin, 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>Upper</b>         | <b>Energy absorption system:</b> polyurethane low density and heel profile   |  |
|                      | Black water repellent leather<br>thickness 1,6/1,8 mm  |  |
| <b>Vamp</b>          | Felt, breathable, colour dark grey   |  |
| <b>lining</b>        | thickness 1,2 mm   |  |
| <b>Quarter</b>       | <b>SANY-DRY®</b> , antibacterial, breathable, abrasion resistant, colour black   |  |
| <b>lining</b>        | thickness 1,2 mm   |  |
| <b>Sole</b>          | Antistatic dual-density polyurethane directly injected in the upper:   |  |
|                      | Outsole: black, high density, slipping resistant, abrasion resistant and hydrocarbons resistant,<br>Midsole: black, low density, comfortable and anti-shock<br>Adherence coefficient of the sole |  |

## SAFETY TECHNICAL SPECIFICATIONS

| Clause<br>EN ISO<br>20345:2011 | Description  | Unit     | Cofra<br>result       | Requirement |
|--------------------------------|--|----------|-----------------------|-------------|
| 5.3.2.3                        | Shock resistance (clearance after shock)                     | mm       | <b>14,2</b>           | ≥ 14        |
| 5.3.2.4                        | Compression resistance (clearance after compression)         | mm       | <b>14,4</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>123</b>            | ≥ 0.1       |
|                                | - dry  | MΩ       | <b>336</b>            | ≤ 1000      |
| 6.2.4                          | Shock absorption   | J        | <b>27,5</b>           | ≥ 20        |
| 5.4.6                          | Water vapour permeability                                    | mg/cmq h | <b>&gt; 1,2</b>       | ≥ 0,8       |
|                                | Permeability coefficient                                     | mg/cmq   | <b>&gt; 17,1</b>      | > 15        |
| 6.3.1                          | Water absorption   |          | <b>20%</b>            | ≤ 30%       |
|                                | Water penetration  |          | <b>0,0 g</b>          | ≤ 0,2 g     |
| 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; 9,8</b>       | ≥ 2         |
|                                | Permeability coefficient                                     | mg/cmq   | <b>&gt; 78,5</b>      | ≥ 20        |
| 5.8.3                          | Abrasion resistance (lost volume)                            | mm³      | <b>53</b>             | ≤ 150       |
| 5.8.4                          | Flexing resistance (cut increase)                            | mm       | <b>1</b>              | ≤ 4         |
| 5.8.6                          | Interlayer bond strength                                     | N/mm     | <b>&gt; 5</b>         | ≥ 4         |
| 6.4.2                          | Hydrocarbons resistance (ΔV = volume increase)               | %        | <b>+ 0,2</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      |

**Distributed by:**

