

**Prod. Ref.** 78500-N02  
**Safety cat.** S3S CI FO SR  
**Range of sizes** 35 - 48 (2 - 13)  
**Weight (sz. 8)** 577 g  
**Shape** A  
**Width** 11

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

**Plus: FOOT-PAD** footbed, extremely soft and comfortable footbed. Thanks to the very low density polyurethane, the footbed is self-molding granting a right distribution of the body weight and providing an immediate feeling of comfort. High shock absorption is provided from highly resilient material and a perfect cushion in the central area of the heel. Perfumed sole.

**Suggested uses:** Construction, maintenance, industries

**Care and maintenance:** Clean after each use and dry off away from direct heat. 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<br>EN ISO<br>20345:2022 | Description                                                   | Unit            | Cofra<br>result                           | Requirement |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------------------------------------------------|-----------------|-------------------------------------------|-------------|
| Complete shoe                                       | Toe cap: <b>ALUMINIUM</b> made, ultra light, impact resistant until 200 J and compression resistant until 1500 kg | 5.3.2.6                        | Shock resistance (clearance after shock)                      | mm              | <b>15,5</b>                               | ≥ 14        |
|                                                     |                                                                                                                   | 5.3.2.7                        | Compression resistance (clearance after compression)          | mm              | <b>20,5</b>                               | ≥ 14        |
|                                                     | Anti perforation midsole: in multi-layers highly tensile fabric, penetration resistant, <b>Zero Perforation</b>   | 6.2.1                          | Penetration resistance<br>(PS requirement with Ø 3,0 mm nail) | N               | <b>To 1100 N</b><br><b>No perforation</b> | ≥ 1100      |
|                                                     |                                                                                                                   | 6.2.2.2                        | Electric resistance                                           |                 |                                           |             |
|                                                     | Antistatic shoe: the bottom is fit for the dissipation of electrostatic charges                                   | - wet                          |                                                               | MΩ              | <b>57,31</b>                              | ≥ 0.1       |
|                                                     |                                                                                                                   | - dry                          |                                                               | MΩ              | <b>79,86</b>                              | ≤ 1000      |
|                                                     | Cold insulation                                                                                                   | 6.2.3.2                        | Cold insulation (temp. decrease after 30' C at -17 °C)        | °C              | <b>6</b>                                  | ≤ 10        |
|                                                     | Energy absorption system                                                                                          | 6.2.4                          | Shock absorption                                              | J               | <b>35</b>                                 | ≥ 20        |
|                                                     | Upper                                                                                                             | 5.4.6                          | Water vapour permeability                                     | mg/cmq h        | <b>&gt; 2,3</b>                           | ≥ 0,8       |
|                                                     |                                                                                                                   |                                | Permeability coefficient                                      | mg/cmq          | <b>&gt; 26,8</b>                          | ≥ 15        |
| Vamp lining Quarter lining Sole                     | Black water repellent grain leather thickness 1,8/2,0 mm                                                          | 6.3                            | Water absorption                                              |                 | <b>16%</b>                                | ≤ 30%       |
|                                                     |                                                                                                                   |                                | Water penetration                                             |                 | <b>0,0 g</b>                              | ≤ 0,2 g     |
|                                                     | Textile, breathable, abrasion resistant, colour black                                                             | 5.5.4                          | Water vapour permeability                                     | mg/cmq h        | <b>&gt; 84,7</b>                          | ≥ 2         |
|                                                     |                                                                                                                   |                                | Permeability coefficient                                      | mg/cmq          | <b>&gt; 677,4</b>                         | ≥ 20        |
|                                                     | Thickness 1,2 mm                                                                                                  | 5.5.4                          | Water vapour permeability                                     | mg/cmq h        | <b>&gt; 64,4</b>                          | ≥ 2         |
|                                                     |                                                                                                                   |                                | Permeability coefficient                                      | mg/cmq          | <b>&gt; 515,4</b>                         | ≥ 20        |
|                                                     | <b>SANY-DRY®</b> , breathable, abrasion resistant, colour red thickness 1,2 mm                                    | 5.8.4                          | Abrasion resistance (lost volume)                             | mm <sup>3</sup> | <b>110</b>                                | ≤ 150       |
|                                                     |                                                                                                                   | 5.8.5                          | Flexing resistance (cut increase)                             | mm              | <b>2,4</b>                                | ≤ 4         |
|                                                     | Antistatic Polyurethane/TPU <b>made of recycled rubber granules</b> , directly injected in the upper:             | 5.8.7                          | Interlayer bond strength                                      | N/mm            | <b>3,5</b>                                | ≥ 3         |
|                                                     |                                                                                                                   | 6.4.2                          | Hydrocarbons resistance (ΔV = volume increase)                | %               | <b>2,3</b>                                | ≤ 12        |
| Adherence coefficient of the sole (Slip resistance) | Outsole: ice TPU, slipping resistant, abrasion resistant and hydrocarbons resistant.                              | 5.3.5.2                        | ceramic + detergent solution – forepart (contact angle 7°)    |                 | <b>0,61</b>                               | ≥ 0,36      |
|                                                     |                                                                                                                   |                                | ceramic + detergent solution – heel (contact angle 7°)        |                 | <b>0,48</b>                               | ≥ 0,31      |
|                                                     | Midsole: black polyurethane, low density, comfortable and anti-shock.                                             | 6.2.10                         | SR : ceramic + glycerol – forepart (contact angle 7°)         |                 | <b>0,24</b>                               | ≥ 0,22      |
|                                                     |                                                                                                                   |                                | SR : ceramic + glycerol – heel (contact angle 7°)             |                 | <b>0,46</b>                               | ≥ 0,19      |