# PRODUCT SHEET

# KHOPER S7S CI SC LG FO SR

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|---|---|
| **Prod. Ref.** | 37620-N00 |
| **Safety cat.** | S7S CI SC LG FO SR |
| **Range of sizes** | 36 - 48 (3 - 13) |
| **Weight** (sz. 8) | 630 g |
| **Shape** | B |
| **Widht** (3 - 6) | 10 |
| **Widht** (6,5 - 13) | 11 |

**Description:** Black water repellent full grain leather ankle boot, **SANY-DRY®** lining, antistatic, anti-shock, slipping resistant, with non metallic **APT PLUS** midsole - type **PS** with Ø 3,0 mm nail.

**Plus: METAL FREE**. **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. **ANTI TORSION 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 and/or unwilled torsion. Perfumed sole. Footwear equipped with a particularly abrasion-resistant material on the toe area (**SC**). Sole design especially conceived for safer standing on ladder rungs (**LG**).

**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

| | | Clause EN ISO 20345:2022+ A1:2024 |
|---|---|---|
| **Complete shoe** | **Water resistance** | 5.15.1 |
| | **Toe cap:** non metallic **FIBERGLASS** toe cap, impact resistant until 200 J | 5.3.2.6 |
| | and compression resistant until 1500 kg | 5.3.2.7 |
| | **Anti perforation midsole:** in multi-layers highly tensile fabric, penetration resistant, **Zero Perforation** | 6.2.1.1.4 |
| | **Antistatic shoe:** the bottom is fit for the dissipation of electrostatic charges | 6.2.2.2 |
| | **Cold insulation** | 6.2.3.2 |
| | **Energy absorption system** | 6.2.4 |
| **Upper** | Black water repellent full grain leather | 5.4.6 |
| | thickness 1,8/2,0 mm | |
| | | 6.3 |
| **Vamp** | Felt, breathable, colour dark grey | 5.5.4 |
| **lining** | thickness 1,2 mm | |
| **Quarter** | **SANY-DRY®**, breathable, abrasion resistant, colour silver | 5.5.4 |
| **lining** | thickness 1,2 mm | |
| **Sole** | Antistatic Polyurethane/TPU **made of recycled rubber granules,** directly injected in the upper: | 5.8.4 |
| | Outsole: ice TPU, slipping resistant, abrasion resistant and hydrocarbons resistant. | 5.8.5 |
| | Midsole: black polyurethane, low density, comfortable and anti-shock. | 5.8.7 |
| | | 6.4.2 |

## SAFETY TECHNICAL SPECIFICATIONS

| Description | Unit | Cofra result | Requirement |
|---|---|---|---|
| Water resistance (area of water penetration after 1000 paces in a surface flooded with water) | $cm^2$ | **≤ 3** | ≤ 3 |
| Shock resistance (clearance after shock) | mm | **18** | ≥ 14 |
| Compression resistance (clearance after compression) | mm | **14,5** | ≥ 14 |
| Penetration resistance (**PS** requirement with Ø 3,0 mm nail) | N | **1313** | ≥ 1100 |
| Electric resistance | | | |
| - wet | MΩ | **51** | ≥ 0.1 |
| - dry | MΩ | **134** | ≤ 1000 |
| Cold insulation (temp. decrease after 30' C at -17 °C) | °C | **5,5** | ≤ 10 |
| Shock absorption | J | **33** | ≥ 20 |
| Water vapour permeability | mg/cmq h | **> 2,1** | ≥ 0,8 |
| Permeability coefficient | mg/cmq | **> 22,1** | ≥ 15 |
| Water absorption | | **2,2%** | ≤ 30% |
| Water penetration | | **0,0 g** | ≤ 0,2 g |
| Water vapour permeability | mg/cmq h | **> 5** | ≥ 2 |
| Permeability coefficient | mg/cmq | **> 41,9** | ≥ 20 |
| Water vapour permeability | mg/cmq h | **> 64,4** | ≥ 2 |
| Permeability coefficient | mg/cmq | **> 515,4** | ≥ 20 |
| Abrasion resistance (lost volume) | $mm^3$ | **102** | ≤ 150 |
| Flexing resistance (cut increase) | mm | **0,9** | ≤ 4 |
| Interlayer bond strength | N/mm | **3,7** | ≥ 3 |
| Hydrocarbons resistance (ΔV = volume increase) | % | **2,2** | ≤ 12 |

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| Adherence coefficient of the sole (Slip resistance) | 5.3.5.2 | ceramic + detergent solution – forepart (contact angle 7°) | **0,41** | ≥ 0,36 |
| | | ceramic + detergent solution – heel (contact angle 7°) | **0,42** | ≥ 0,31 |
| | 6.2.10 | SR : ceramic + glycerol – forepart (contact angle 7°) | **0,25** | ≥ 0,22 |
| | | SR : ceramic + glycerol – heel (contact angle 7°) | **0,28** | ≥ 0,19 |