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| Prod. Ref. | 13630-000 |
| Safety cat. | S3 WR CI HRO SRC |
| Range of sizes | 39 - 47 (6 - 12) |
| Weight (sz. 9) | 900 g |
| Shape | C |
| Wide | 12 |

Description: Black water repellent full grain leather resistant to low temperatures rigger boot, **GORE-TEX[®] Insulate Comfort Footwear** membrane lining, antistatic, anti-shock, slipping resistant, non metallic **APT Plate** midsole **Zero Perforation**.

Plus: **COLD BARRIER** anatomic and scented footbed, insulating against low temperatures. The thermal comfort inside the footwear is granted thanks to the specials PU compound devised to give high insulation, covered with warm fabric. The leather used for these footwear is subjected to a treatment which makes them flexible and resistant to low temperatures even in the flexing areas to prevent cracks and stiffening. Sole **COLD DEFENDER PU/Nitrile** rubber resistant to low temperatures. **COLD BARRIER PU** is a special PU compound which guarantees higher performances than the ordinary PU for mechanical resistance to low temperatures and thermal insulation and it resist under extreme temperatures up to -25°C. The rubber outsole design has been devised to improve the slip resistance and enhance the comfort even on frozen and rambling surfaces.

Suggested uses: Footwear for cold temperature.

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

SAFETY TECHNICAL SPECIFICATIONS

| | | Clause EN ISO 20344 :2004 | Description | Unit | Cofra result | Requirement |
|----------------|---|---------------------------------|--|-----------------|-----------------------------|-------------|
| Complete shoe | Water resistance | 5.15.1 | Water resistance (area of water penetration after 100 paces in a surface flooded with water) | cm ² | ≤ 3 | ≤ 3 |
| | Toe cap: non metallic extra large TOP RETURN toe cap, impact resistant until 200 J and compression resistant until 1500 kg | 5.3.2.3 | Shock resistance (clearance after shock) | mm | 14 | ≥ 14 |
| | | 5.3.2.4 | Compression resistance (clearance after compression) | mm | 16 | ≥ 14 |
| | Anti perforation midsole: in multi-layers highly tensile fabric, penetration resistant, Zero Perforation . | 6.2.1 | Penetration resistance | N | To 1100 N no perforation | ≥ 1100 |
| | Antistatic shoe: the bottom is fit for the dissipation of electrostatic charges | 6.2.2.2 | Electric resistance | | | |
| Upper | Cold insulation | 6.2.3.2 | - wet | MΩ | 742 | ≥ 0.1 |
| | | | - dry | MΩ | 1000 | ≤ 1000 |
| | Energy absorption system: polyurethane low density and heel profile | 6.2.4 | Shock absorption | J | > 39,5 | ≥ 20 |
| | Black water repellent grain leather, resistant to low temperatures thickness 1,8/2,0 mm | 5.4.6 | Water vapour permeability | mg/cmq h | > 4,5 | ≥ 0,8 |
| | | | Permeability coefficient | mg/cmq | > 45,4 | > 15 |
| Quarter lining | GORE-TEX [®] membrane, breathable and abrasion resistant, colour grey thickness 1.2 mm | 6.3.1 | Water resistance | minutes | > 60 | > 60 |
| | | 5.5.3 | Water vapour permeability | mg/cmq h | > 5 | ≥ 2 |
| | | | Permeability coefficient | mg/cmq | > 40,1 | ≥ 20 |
| Sole | COLD DEFENDER PU - Nitrile rubber, antistatic, resistant to low temperatures, directly injected in the upper: | 5.8.3 | Abrasion resistance (lost volume) | mm ³ | 132 | ≤ 150 |

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|-----------------------------------|--|-------|--|------|--------------------|-------------|
| Outsole: | black Nitrile rubber, slipping resistant, abrasion resistant, hydrocarbons resistant, and hot resistant. | 5.8.4 | Flexing resistance (cut increase) | mm | 1 | ≤ 4 |
| | | 5.8.6 | Interlayer bond strength | N/m | > 5 | ≥ 4 |
| | | 6.4.4 | Hot resistance (300 °C) | ---- | any melting | any melting |
| Midsole: | Cold Defender PU resistant to -25°C, colour black | 6.4.5 | Hydrocarbons resistance (ΔV = volume increase) | % | + 3,6 | ≤ + 12 |
| Adherence coefficient of the sole | | 5.3.5 | SRA : ceramic + detergent solution – flat | | 0,45 | ≥ 0,32 |
| | | | SRA : ceramic + detergent solution – heel (contact angle 7°) | | 0,40 | ≥ 0,28 |
| | | | SRB : steel + glycerol – flat | | 0,20 | ≥ 0,18 |
| | | | SRB : steel + glycerol – heel (contact angle 7°) | | 0,14 | ≥ 0,13 |