

PRODUCT SHEET

7A58 Qomandor S3S SR FO



Safety mid-shoes S3S SR FO with fiber glass toecap and non-metallic midsole.

Standard: EN ISO 20345:2022

Range of size: 35-46 (EU)

The footwear is designed to comply with the provisions of the Regulation EU 2016/425 and the essential safety and health requirements corresponding to the intended use area.

Field of use: protection of the forefoot against impact (200J mechanical shocks) and crushing (15kN static compression force), protection of the foot against puncture (1100N perforation force), minor superficial mechanical aggressions (abrasion, clamping), heel protection against mechanical shocks (properties of energy absorption in the heel, minimum 20J), antistatic properties and outsole with profile, resistant to hydrocarbons - to handling activities of heavy objects with danger of falling or rolling, when traveling on uneven surfaces or covered with shallow layers of water.

Applications and industries: construction sites, maintenance, industries, general use.

Characteristics and materials:

- ✦ Upper: water repellent, nubuck leather;
- ✦ Vamp lining: loose knit fabric with spongy material;
- ✦ Quarter lining: loose knit fabric with spongy material;
- ✦ Removable insole: non-woven, stiffened fabric, antistatic;
- ✦ Sole: dual density PU, directly injected, non-slip surface;
- ✦ Ankle protection: provided at the upper edge with a cushioning comfort element made of synthetic leather, doubled with spongy materials;
- ✦ Toecap: fiber glass;
- ✦ Midsole: anti-perforation, non-metallic;
- ✦ Closing system: laces through non-metallic eyelets;
- ✦ Quarter height: min. 125 mm assortment B .

Performances according to EN ISO 20345:2022:

- ✓ **S:** Shoes marked S have toes that withstand 200 J of impact energy and 15 kN of pressure.
- ✓ **O:** Shoes marked with the letter O do not have a toe cap, but meet the basic requirements for work shoes.
- ✓ **Class I:** Footwear made of leather and other materials, except footwear made of rubber or polymeric materials.
- ✓ **Class II:** All-rubber (i.e. fully vulcanized) or all-polymeric (i.e. fully molded) footwear.
- ✓ **P:** Penetration resistant outsole.
- ✓ **-TYPE P:** for soles with steel antiperforation midsole: pass-fail test at 1100 N using a conical truncated nail with a diameter of 4.5 mm
- ✓ **- TYPE PL:** for soles with non-metallic antiperforation midsole: pass-fail test at 1100 N using a conical truncated nail with a diameter of 4.5 mm. No perforation shall occur in any



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- of the four measurements and furthermore no separation of the layers shall occur during the tests.
- ✓ - **PS TYPE**: for soles with non-metallic antiperforation midsole: testing with maximum punching force using a 3.0 mm diameter conical truncated nail. The average value of the force required to puncture the sole shall be ≥ 1100 N and each value shall be ≥ 950 N.
 - ✓ **C** - Partially conductive footwear
 - ✓ **A** - Antistatic footwear. Electrical resistance (0.1-1000 M Ω).
 - ✓ **HI** - Thermal insulation of the outsole complex
 - ✓ **CI** - Cold insulation of the outsole complex
 - ✓ **E** - Energy absorption in the heel area (20 Joules).
 - ✓ **WR** - Water resistance
 - ✓ **M** - Metatarsal protection
 - ✓ **AN** - Ankle protection
 - ✓ **CR** - Cut resistance
 - ✓ **SC** - Abrasion resistance of scratch protection covers.
 - ✓ To determine the degree of abrasion of the top cover, a Martindale abrasion test of 8,000 cycles will be performed. According to the test, the cover must not have holes throughout its thickness.
 - ✓ **SR** - Slip resistance (glycerin ceramic tile flooring)
 - ✓ This new additional requirement tests the slip resistance of safety shoes on glycerin ceramic tiles. When the heel slides forward, a coefficient of friction ≥ 0.19 mm is allowed. When the front of the shoe slides backwards, a coefficient of friction ≥ 0.22 mm is allowed.
 - ✓ **WPA** - Water penetration and absorption
 - ✓ **HRO** - Resistance to hot contact
 - ✓ **FO** - Hydrocarbon resistant outsole.
 - ✓ **LG** - Adhesion to stairs
 - ✓ To provide a better grip on stairs, the outer sole of a safety shoe should have a cross profile with a height of at least 1.5 mm in the ankle area.
 - ✓
 - ✓ Performance according to standard EN 61340-5-1:2016:
 - ✓ Footwear receives the ESD mark if the electrical volume resistivity of the floor-shoe-person assembly is above $1 \times 10^5 \Omega$ or $0.1 \text{ M}\Omega$ and below $3.5 \times 10^7 \Omega$ or $35 \text{ M}\Omega$. ESD shoes are therefore always antistatic.



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