



ELECTRO SB FO E PL SR

3R435N

CE EN ISO 20345:2022 SB FO E PL SR

LOW SAFETY SHOE

36-47

DIELECTRIC Sole line

Low safety shoe, technical fabric MICRO-tech thickness 1,8-2,0 mm., and perspiring and abrasion resistant net.
Highly perspiring and abrasion resistant net.
Soft, lined and padded tongue.
COMPLETELY METAL FREE SHOE
TOECAP 200J polymeric composite non-thermic according to EN 22568
PL MIDSOLE flexible antiperforation composite **INSULATING** fabric according to EN 22568
3 RUN SOLE in dielectric triple-density polyurethane, resistant to hydrocarbons and abrasion, anti-shock and anti-slip.
Article 3R435N has been tested using a method analogous to ASTM F2413-18 (EH) and CSA Z195-14: determination of resistance to an electric shock, increase 1 kV/sec, voltage 20,000 V/60 Hz holding the voltage for 1 minute. Electrical current requirement below 1.0 mA.
The outsole of the footwear, within specific limits (in the absence of moisture, not referring to the upper), was tested using a method analogous to EN ISO 20345:2022 to provide electrical insulation against voltages up to 1000 V M ohm >1000.

(Test report No. 4212933/E)
ANTITORSION insert in the sole to ensure stability on uneven ground
DIELECTRIC INSOLE, extracomfort bimaterial with activated carbons, perspiring, removable, anatomic, absorbing, insulating and antibacterial.
Eco-Friendly
FO sole resistance to hydrocarbons
E energy absorption on seat region
PL sole resistance to perforation
SR sole resistance against slipping
THIS PRODUCT COMPLIES WITH THE REQUIREMENTS OF THE STANDARD ASTM F2413-24:
- Impact resistant footwear (I)
- Compression resistant footwear (C)
- Puncture Resistant Footwear (PR)
- Electric Hazard Resistant Footwear (EH)
- Slip Resistance (SRO)
Size 36-47 Shoe weight size 42 gr. 510
** The calculated weight excludes laces and insoles.*

AREAS OF APPLICATION

 Electrician

CERTIFICATIONS APPLIED

- **PL** Puncture Resistance with Non-Metallic Insert (nail Ø 4.5mm)
- **FO** Hydrocarbon Resistance

- **ASTM F2413-24**
- **Insulation up to 20,000V**

- **Heel Energy Absorption**
- **DGVU 112-191**

TECHNOLOGIES AND MATERIALS

- **No metal**
- **Metal-Free**
- **High Breathability**
- **Mondo Point 11**
- **Extreme Lightness**
- **Slip Resistance (optional glycerin test)**
- **Three to be™ - Triple Density Injection**
- **Anti-Torsion Sole**



Three to be™ - Triple Density Injection

Three to Be® - Tripla Densità Iniettata technology represents one of the most advanced results of our R&D efforts. Patented by Giasco, it integrates three entirely polyurethane-injected sole layers to optimize safety shoe performance in terms of comfort, stability, and slip resistance.



Anti-Torsion Sole

The Anti Torsion system uses a thermoplastic shank designed to increase stability on irregular and wet surfaces. Unlike standard shanks, it flexes with the foot's natural motion, reducing the risk of twists and falls. Ideal for outdoor work, especially in construction, where surface control is critical.

DIELECTRIC Sole line

Dielectric sole line was developed to meet the needs of those working in contact with electrical cables and systems. Specifically, this line offers a safety shoe with an insulating sole that provides specific protection against the risk of electric shock. This is made possible by a series of insulating materials specifically designed for this purpose: the nitrile rubber compound of the outsole, the polyurethane foam of the midsole, the fabrics of the puncture-resistant insole, and the compound of the internal footbed. These technologies enabled the shoes to pass electrical resistance tests in accordance with the analogous method of the EN ISO 20344:2021 standard and ASTM F2413 (EH) / CSA Z195-14 at 20 kV/60 Hz. In addition, the specific materials used in the sole construction allowed the product to obtain the important American certification ASTM 2413-24 EH (Electric Hazard Resistant Footwear).

