

DIELECTRIC PRO BOOTS

CLASS 2



workMaster™
by RESPIREX

Power Generation

Power Distribution

Construction

Telecommunications

Transport

An electrically insulating dielectric boot with an integral steel toe cap and **penetration resistant mid-sole** combined with a vulcanised rubber sole for superior slip resistance. The Respirex Dielectric boot allows high-voltage live working at up to **17kV**, with every boot tested at 20kV AC, with optional DC testing at 40kV (Class 1).

Features

- The first Class 2 Dielectric boot with an **integral penetration resistant midsole** that continues to provide Class 2 protection even when the rubber outsole is punctured (by a screw/nail etc)
- Injection moulded using our proprietary **Dielectric compound** for a seamless boot with excellent electrical insulation properties
- **Step voltage protection** up to 35kV*
- **Arc flash protection** – Meets the requirements of ASTM F2621-2019 at 40Cal/cm²**
- 200 Joule epoxy coated steel **toe cap**
- **Vulcanized rubber sole** for improved slip resistance - 30% better than a conventional safety boot sole
- **Durable, cut-resistant** vulcanised rubber sole, significantly extends working life, even in harsh terrain
- Cleated outsole for **maximum grip** in wet and oily conditions (**SR**)
- **Ladder grip** cleats on instep (**LG**)
- **Heat resistant sole** EN 20345 **HRO**, 60 seconds at 300°C
- **Cold insulation** to EN ISO 20345 **CI**
- **Fuel and oil resistant sole** (**FO**)
- Our latest ergonomic **cushioned insole** significantly improves wearer comfort and thermal insulation
- **Energy absorbing** tunnel system in heel to EN 20345 E
- Non-wicking knitted nylon lining
- Kick-off lug
- Adjustable height
- CE marked on the shaft with date and year of manufacture
- REACH Compliant

Care

- Machine washable at up to 40°C
- Shelf life of over 10 years

Options

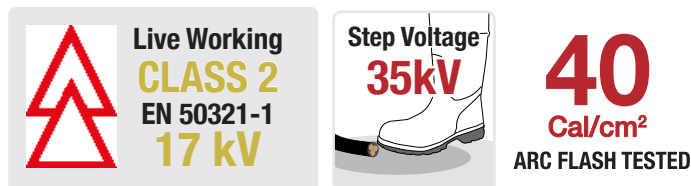
- Additional DC high voltage test
- Removable thermal liner

High Voltage Test

Each boot: **20kV AC** - Leakage current <18mA over the three minute test cycle

Sizes

US	4	5	6	7	8	9	10	11	12	13	14	15	16
EU	35	36	37	39	41	42	43	44	45	46	47	49	50
UK	3	4	5	6	7	8	9	10	11	12	13	14	15



Certification

- **EN ISO 20345:2022+A1:2024** SB P E CI HRO FO LG SR Safety Footwear
- **EN 50321-1:2018 Class 2 AC** Electrically Insulating Footwear for Live Working
- **ASTM F1117 (20kV)** Dielectric Footwear
- **ASTM 2413 EH (18kV)** Step Voltage Protection
- **PPE Regulation (EU) 2016/425** Personal Protective Equipment

*Tested using the ASTM 2412-18a step voltage test method at 35kV with leakage current less than 1mA.

**The Respirex Dielectric boot has been independently tested and meets the test requirements of ASTM F2621-2019.

Specifications, configurations and colours are subject to change without notice.