DIELECTRIC PRO

workMaster™ by RESPIREX

CLASS 2 DIELECTRIC SAFETY BOOTS

The first EN 50321-1 Class 2 Dielectric safety boot to incorporate a penetration resistant mid-sole that provides electrical protection even after nail penetration. The Workmaster™ Dielectric Pro 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).

Workmaster Dielectric Boots are trusted by utility and power distribution companies globally to protect high voltage workers.

CERTIFICATION

- **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
- **EN ISO 20345:2022**
  SB E CI HRO SR FO LG
  Safety Footwear
- **PPE Regulation (EU) 2016/425**
  Personal Protective Equipment

SPECIFICATIONS

CLASS 2 Insulating Safety Boot Certified to EN 50321-1 providing protection for live working at up to 17,000 volts

SB Category Safety Boot Complies with the requirements for safety footwear in EN ISO 20345

Cleated vulcanised rubber outsole for **maximum grip** in wet and oily conditions (**SR**)

Integral 200 Joule epoxy coated steel **toecap** and stainless steel 1100N penetration resistant **mid-sole**

Fuel and oil resistant sole ensuring the working life of the boot won't be compromised if used in oily environments

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

Arc Flash Tested Independently tested to meet the requirements of ASTM F2621-2019 for exposure to electric arc energy at **40 Cal/cm²**.

Heat resistant sole EN ISO 20345 **HRO** 60 seconds at 300°C & **HI** 30 Minutes at 150°C

Cold insulation to EN ISO 20345 **CI** Internal temperature drops by less than 0.5°C after 30 mins inside a chamber at -17°C, **9.5°C better than required for CI marking**

Energy absorbing tunnel system in heel to EN ISO 20345 **E**

Ladder Grip (LG) Additional cleats added to the instep of the footwear to improve grip on the rungs of a ladder.

WORKMASTERBOOTS.COM

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High Voltage Working
Our Class 2 Dielectric boots are designed to be used for live working up at up to **17kV** and provide step voltage protection up to 35kV. For higher voltages, check out our Class 3 Dielectric HV3 Boots.

Ergonomic cushioned insole
Fitted as standard, our latest cushioned insoles provide excellent wearer comfort and support, and significantly improve thermal insulation

Penetration Resistant Mid-Sole
The first dielectric boot to be fitted with a stainless steel 1100N midsole that still provides Class 2 protection even after the boot sole is penetrated by a nail or screw

Vulcanised rubber sole
Provides excellent slip resistance (SR), and far greater durability than conventional moulded soles

Kick-off lug
For easy 'hands-free' removal of the boots.

OPTIONS

DIELECTRIC T Provides the same performance as our Dielectric Class 2 boot, but in a metal-free design incorporating a composite toecap

Maxi and Compact Overboots insulating overboots for use over the top of safety boots (maxi) or safety trainers (compact)

CARE

- Machine washable at up to 40°C
- Shelf life of over 10 years
- All Workmaster boots are REACH compliant, PFAS free and CE marked on the shaft with date and year of manufacture

SIZES

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

Note: The height of the boot can be adjusted by trimming down to the second cut line moulded into the shaft of the boot

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

: www.workmasterboots.com
: info@workmasterboots.com
: +44 (0)1737 778600

WorkMaster™ is a division of Respirex International Limited
Unit F, Kingsfield Business Centre, Philanthropic Road,
Redhill, Surrey, RH1 4DP, United Kingdom