DIELECTRIC BOOTS



Power Generation Power Distribution Construction Telecommunications Transport

An electrically insulating dielectric boot with an integral steel toe cap and vulcanized rubber sole for superior slip resistance. The Respirex Dielectric boot provides protection of up to 20kV over the complete boot for over 8 hours, and 35kV over the sole for 3 minutes.

Boot Shaft

- · Yellow dielectric compound shaft
- 200 Joule Epoxy coated Steel toe cap to EN ISO 20345
- Seamless construction
- · Kick off lug
- Extra shin protection
- Adjustable height
- Ankle guard
- · Non-wicking knitted nylon lining
- Comfort insole (removable and machine washable)
- REACH Compliant

Boot Sole

- Blue vulcanized rubber sole for maximum grip 30% better than a conventional safety boot sole
- Slip resistance twice that required by SATRA TM144 standards
- Cleated outsole for maximum grip
- Two to three times the wear resistance of conventional soles
- Fuel and oil resistant
- Greater cut resistance than conventional soles
- Resistance to hot contact 60 seconds 300°C.
- Energy absorbing tunnel system conforms to EN 20345 E
- Cold insulation to EN ISO 20345

Care

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

Electrical Protection

Complete boot: 20 kV..........8 hours no damage 5 kV.......<5mA Leakage current

Sole: 35 kV.....3 minutes no damage

Certification

Safety Footwear EN ISO 20345:2011
- SB E CI HRO SRC FO
Electrically Insulating Footwear EN 50321:2018 Class 2

Dielectric Footwear ASTM F1117

Personal Protective Equipment PPE Regulation (EU) 2016/425

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





DIELECTRIC BOOTS

CLASS 2



Power Generation Power Distribution Construction **Telecommunications** Transport

An electrically insulating dielectric boot with an integral steel toe cap and 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

- 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 (soft toe version also available)
- Vulcanized rubber sole for improved slip resistance 30% better than a conventional safety boot sole
- Durable, cut-resistent vulcanised rubber sole, significantly extends working life, even in harsh terrain
- Cleated outsole for maximum grip in wet and oily conditions (SR)
- Heat resistant sole EN 20345:2022 HRO, 60 seconds at 300°C
- Cold insulation to EN ISO 20345:2022 CI
- Fuel and oil resistant sole
- Ergonomic cushioned insole (removable & machine washable) for greater wearer comfort
- Energy absorbing tunnel system in heel to EN 20345:2022 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 SB E CI HRO SR FO 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.