

## **ELECTRIGUARD™ 20kV Dielectric Overboots**

### Frequently Asked Questions

**Q1: What are dielectric overboots?**

**A1:** Dielectric overboots are boots that are worn over standard work boots or steel toe work boots intended to provide protection against step /touch potential and electrical shock. The Electranguard dielectric overboots are rated at 20kV per ASTM F1117 performance specification and F1116 standard testing method

**Q2: What is the difference between Dielectric Footwear per ASTM F1117 and Electrical Hazard Footwear per ASTM F2413?**

**A2:** There are two types of footwear used for protection against electrical shock. They are Dielectric and Electrical Hazard rated. OSHA provides a general guide on wearing protective footwear but not necessarily when and where to use either footwear standard.

According to OSHA 29 1910.136(a) "each affected employee shall wear protective footwear when working in areas where this is danger of foot injuries due to falling or rolling object, or objects piercing the sole and where such employee's feet are exposed to electrical hazards" (OSHA).

OSHA 29 CFR 1910.269 which applies to transmission, distribution and generation of electricity, references ASTM F1117 Dielectric Footwear in the standards document, but does not provide guidelines as to when they are needed.

Pertaining to EH (Electrical Hazard Footwear) OSHA states "Electrical hazard, safety-toe shoes are non-conductive and will prevent the wearers' feet from completing an electrical circuit to ground. These shoes can protect against open circuits of up to 600 volts in dry conditions and should be used in conjunction with other insulating equipment and additional precautions to reduce risk of a worker becoming a path for hazardous electrical energy. The insulating protection of electrical hazard safety toe shoes may be compromised if the shoes become wet, the soles are worn through, metal particles become embedded in the sole or heel, or workers touch conductive, grounded items" (OSHA). EH footwear should be considered for low voltage (<600V), low risk tasks.

EH (Electrical Hazard, ASTM F2413) boots are designed primarily to provide impact and compression protection.

High risk tasks in medium to high voltage environments require the more stable protection that ASTM F1117 footwear is designed to offer and especially over boots as they protect a high portion of the leg. The higher the overshoe/boot the less likely there will be water or other energized material contacting the worker.

- "Hoagland, Hugh. *Using Dielectric & Electrical Hazard (EH) Shoes*. (2009)."
- "(Occupational Safety & Health Administration (OSHA). (2016). Regulations (Standards - 29 CFR) Retrieved from [https://www.osha.gov/pls/oshaweb/owadisp.show\\_document?p\\_table=STANDARDS&p\\_id=9786](https://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=9786)

**For more information**

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Frequently asked questions for 20kV dielectric overboots

**Q3: Why was there a design change between the current version 21405 (17" Height) and 21406 (14" Height) and the new Electranguard series Overboot 21405WT and 21406WT?**

**A3:** The overboots were reengineered by adding extensive features intended to provide the user improved comfort and fit. The new design aims to provide hassle free donning and doffing with an improved overall fit when worn over standard work boots or steel toe work boots. The dielectric performance is the same as current version rating of 20kV

**Q4: What new features were added to the Electranguard overboots?**

**A4:**

- A wider upper boot with integral pull handles to facilitate donning over standard work boots
- Rear kick off ledge designed for a hassle-free removal
- Reflective stripe for enhanced visibility
- New color style denoting ASTM F1117 20kV dielectric performance

**Q5: What is the material composition of the boots?**

**A5:** The upper boot and outer sole is made out of EPDM and natural rubber. The inner lining is 50% cotton and 50% polyester

**Q6: What sizes are available? How are boots sized?**

**A6:** The boots are available in US Whole sizes 7-17. There is a sizing chart available with overall boot dimensions that will provide sizing guidelines when measuring your work boot.

**Q7: Will the new boots completely replace the old boots?**

**A7:** Yes once inventory of the old styles 21405 and 21046 is depleted they will be completely replaced with the equivalent 21405WTxx and 21406WT

**Q8: What is the standard packaging?**

**A8:** Boots can be ordered in standard packs of 1 pair or 6 pairs

**Q9: Where are the boots made?**

**A9:** The boots are made in China.

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