



Listing #90P1

Note:

“ESD protective footwear is designed to reduce body charge levels by supplying a conductive path from the body to the floor material. Heel and toe grounders shall be worn on both feet to insure effective use.

The ability of footwear to remove a charge from a charged person who moves from an unprotected area to a protected one, or moves about on an ESD floor should be evaluated. As a person contacts an ESD floor material with static control footwear, the body charge should dissipate leaving minimal residual charge. [ESD Handbook ESD TR20.20-2008 section 5.3.3.3.4 Footwear Proper Usage]

“For standing operations, personnel shall be grounded via a wrist strap system or by a flooring/ footwear system. When a flooring-footwear system is used, one of the two following conditions shall be met:

A. When the total resistance of the system (from the person, through the footwear and flooring to the grounding / equipotential bonding system) is less than $3.5 \times 10E7$ ohms, Method 1 shall be followed (see Table 2).

B. When the total resistance of the system (from the person, through the footwear and flooring to the grounding / equipotential bonding system) is greater than $3.5 \times 10E7$ ohms and less than $1 \times 10E9$ ohms, Method 2 shall be followed (see Table 2 which includes < 100 volt Product Qualification test per ESD STM97.2-1999 Floor Materials and Footwear-Voltage Measurement in Combination with a Person).” [ANSI/ESDS20.20-2007 section 8.2]

Desco recommends the use of foot ground tester item No. [19252](#), [19276](#), or [19277](#).

For additional information on the use and maintenance of foot grounders please ask for Technical Bulletins TB-2020, TB-2040, TB-3034.

Key:

- A. Exterior layer made of conductive rubber to ground the operator via ESD flooring
- B. Interior layer made of non-marring rubber that will not blemish shoes
- C. 24” conductive ribbon
- D. One megohm fully insulated current limiting resistor
- E. High visibility lime green hook and loop adjustable closure
- F. Elastic material for comfort

	Non-Marking Inner Layer	Black Outer Layer	Test Method
Electrical Properties:			
Charge Decay	< 0.01 sec.	<0.01 sec.	FTMS-1018, Method 4046
RTG w/1 megohm resistor	<10 megohm	<10 megohm	EOS/ESD-S4.1 @ 10V
Physical Properties:			
Abrasion, 1000 grams, 4000 cycles	<1.0 grams loss	<0.1 grams loss	ASTM-D3389 Method B
Hardness	65 ± 5 Shore A	65 ± 5 Shore A	ASTM-D2240

Meets the requirements of ANSI/ESD S20.20-2007 Table 2 Method 2, JEDEC-108/9, MIL-HDBK-263A, MIL-STD-1686, and DOD-STD-2000.

Caution: The foot grounder is for ESD control. It will not reduce or increase your risk of receiving electric shock when using or working on electrical equipment.

NEON LIME HEEL GRINDER, ONE MEGOHM

DESCO WEST: 3651 WALNUT AVE., CHINO, CA 91710 WEB SITE: Desco.com
 PHONE (909) 627-8178 FAX (909) 627-7449 FAX REQUEST (909) 627-7126
 DESC0 EAST: ONE COLGATE WAY, CANTON, MA 02021-1407
 PHONE (781) 821-8370 FAX (781) 575-0172

DRAWING NUMBER
07599

DATE:
March 2010

