

ANSI/ESD STM9.1-2014

ESD Association Standard Test Method

ANSI/ESD STM9.1-2014

Revision of ESD STM9.1-2006

*For the Protection of Electrostatic
Discharge Susceptible Items*

*Footwear –
Resistive Characterization
(excluding foot grounders)*



*Electrostatic Discharge Association
7900 Turin Road, Bldg. 3
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*An American National Standard
Approved November 24, 2014*

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***ESD Association Standard Test Method for
the Protection of Electrostatic Discharge
Susceptible Items -***

***Footwear – Resistive Characterization
(excluding foot grounders)***

Approved September 2, 2012
EOS/ESD Association, Inc.



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(This foreword is not part of ESD Association standard test method ANSI/ESD STM9.1-2014)

FOREWORD

This standard test method¹ is intended to provide a test method for evaluating the resistance of static control footwear. This standard test method does not include foot grounders (i.e., heel straps, toe grounders, sole grounders, and booties).

This standard test method is limited to defining procedures for measuring the electrical resistance of footwear only and does not address electrical resistance through a person in combination with floor materials. For this test method see ANSI/ESD STM97.1. For voltage generation in combination with a person see ANSI/ESD STM97.2. A common source of electrostatic charge in a work environment is the separation of the foot from the floor when walking, resulting in the generation of electrostatic charge that can accumulate on personnel. The effect of this generation and accumulation can be minimized by the appropriate selection of footwear.

To effectively control electrostatic charges, footwear must be used in conjunction with ESD floors or floor materials as defined in ANSI/ESD S7.1.

Static control footwear may also pose an electrical hazard unless properly designed and worn in appropriate environments. The test method described in this document will not guarantee electrical hazard reduction.

This standard test method was originally designated ESD S9.1-1995 and approved on June 5, 1995. ANSI/ESD STM9.1-2001 was a reaffirmation, re-designation of ESD S9.1-1995 and was approved on February 4, 2001. ANSI/ESD STM9.1-2006 was a reaffirmation of ANSI/ESD STM9.1-2001 and was approved on June 11, 2006. ANSI/ESD STM9.1-2014 is a revision of ANSI/ESD STM9.1-2006 and was approved on September 2, 2012.

At the time ANSI/ESD STM9.1-2014 was prepared, the 9.0 Footwear Subcommittee had the following members:

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¹ **ESD Association Standard Test Method (STM):** A definitive procedure for the identification, measurement and evaluation of one or more qualities, characteristics, or properties of a material, product, system, or process that yield a **reproducible test** results.

At the time ESD S9.1-1995 was prepared, the 9.0 Footwear Subcommittee had the following members:

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