

ANSI/ESD STM7.1-2013

ESD Association Standard Test Method

ANSI/ESD STM7.1-2013

Revision and Re-designation of ANSI/ESD S7.1-2005

*For the Protection of Electrostatic
Discharge Susceptible Items*

*Floor Materials
Characterization of Materials*



*Electrostatic Discharge Association
7900 Turin Road, Bldg. 3
Rome, NY 13440*

*An American National Standard
Approved May 13, 2014*

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

Floor Materials –
Characterization of Materials*

Approved July 15, 2013
ESD Association



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FOREWORD

This standard test method¹ is intended to provide test methods for evaluating floor materials used to control electrostatic charge. This standard test method covers all floor materials including floor mats, floor coverings, coatings, paints, and floor finishes.

This standard test method is limited to defining procedures for measuring electrical resistance. Electrical resistance is one property that can be used to evaluate the electrostatic performance of floor materials. However, resistance does not fully characterize these materials. An additional property to be considered in the selection and use of floor materials includes triboelectric charge generation; however, this is beyond the scope of this document.

A common source of electrostatic charge in a work environment is the separation of foot or caster from the floor, resulting in the generation of electrostatic charge that can accumulate on personnel and equipment. The effect of this generation and accumulation of electrostatic charge can be minimized with appropriate selection or treatment of the floor material.

To effectively control electrostatic charge, floor materials should be used in conjunction with ESD controlled footwear, wheels, or casters.

This standard test method was originally designated ESD S7.1-1994 and was approved on February 27, 1994. ANSI/ESD STM7.1-2001 was a reaffirmation, re-designation of ESD S7.1-1994 and was approved on May 20, 2001. ANSI/ESD STM7.1-2005 was a revision, re-designation of ANSI/ESD S7.1-2001 and was approved on February 15, 2005. ANSI/ESD STM7.1-2013 is a revision and re-designation of ANSI/ESD S7.1-2005 and was approved on July 15, 2013.

At the time ANSI/ESD STM7.1-2013 was prepared, the 7.0 Flooring Subcommittee had the following members:

	Dale Tucker, Chair Floorfolio Industries	
Brent Beamer 3M	Rejean Dion Bystat International	Dale Gross Flexco Corporation
Bruno Guidotti Forbo Flooring	Jose Sancho NASA/GSFC/Honeywell TSI	Bob Vermillion RMV Technology Group, LLC

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 yields **reproducible test** results.

At the time ANSI/ESD S7.1-2005 was prepared, the 7.0 Flooring Subcommittee had the following members:

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At the time ESD S7.1-1994 was prepared, the 7.0 Flooring Subcommittee had the following members:

	Paul Petersen, Chairman 3M Canada	
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Martin Rudat DuPont Flooring	Steve Fowler Fowler Associates	Dale Tucker VPI
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