

**INSTITUTE OF  
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**Contamination Control Division  
Recommended Practice 004.3**

**IEST-RP-CC004.3**

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**Evaluating Wiping Materials Used  
in Cleanrooms and Other  
Controlled Environments**

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**INSTITUTE OF ENVIRONMENTAL SCIENCES AND TECHNOLOGY**

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1827 Walden Office Square, Suite 400 |  
Schaumburg, IL 60173 USA  
Phone: (847) 981-0100 • Fax: (847) 981-4130  
E-mail: [iest@iest.org](mailto:iest@iest.org) • Web: [www.iest.org](http://www.iest.org)



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**INSTITUTE OF ENVIRONMENTAL SCIENCES AND TECHNOLOGY**

1827 Walden Office Square, Suite 400 | Schaumburg, IL 60173 USA

Phone: (847) 981-0100 • Fax: (847) 981-4130

E-mail: [iest@iest.org](mailto:iest@iest.org) • Web: [www.iest.org](http://www.iest.org)

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# Evaluating Wiping Materials Used in Cleanrooms and Other Controlled Environments

## IEST-RP-CC004.3

### CONTENTS

#### SECTION

1	SCOPE AND LIMITATIONS .....	7
2	REFERENCES .....	7
3	TERMS AND DEFINITIONS .....	8
4	BACKGROUND AND PURPOSE .....	8
5	RECOMMENDED LABORATORY PRACTICES .....	9
6	TESTS FOR PARTICLES .....	10
7	TESTS FOR EXTRACTABLE MATTER .....	18
8	TEST FOR SORBENCY CAPACITY AND SORBENCY RATE.....	22
9	METHOD FOR QUANTIFYING BIOBURDEN ON CONSUMABLES.....	25
10	TEST FOR STATIC .....	26

#### FIGURE

1	PARTICLE SIZE AND ENUMERATION TECHNIQUE.....	13
2	16 FIELDS.....	17
3	32 FIELDS.....	17

#### TABLE

1	PRECISION AND BIAS TEST RESULTS (10 REPLICATIONS).....	25
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#### APPENDIX

A	BIBLIOGRAPHY .....	27
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# **Evaluating Wiping Materials Used in Cleanrooms and Other Controlled Environments**

## **IEST-RP-CC004.3**

### **1 SCOPE AND LIMITATIONS**

#### **1.1 Scope**

This Recommended Practice (RP) describes methods for testing wipers used in cleanrooms and other controlled environments for characteristics related to both cleanliness and function.

#### **1.2 Limitations**

No recommendations are made for the construction, packaging, or laundering of wipers, or for the determination of such physical characteristics as strength or resistance to abrasion.

### **2 REFERENCES**

The following documents are incorporated into this RP to the extent specified herein. Users should apply the most recent editions of the references.

#### **2.1 ANSI**

*ANSI/AAMI/ISO 11737-1: Sterilization of medical devices – microbiological methods – Part 1: Estimation of population of microorganisms on products*

#### **2.2 American Society for Testing and Materials (ASTM)**

*ASTM D1193-99e1: Standard Specification for Reagent Water*

*ASTM E548-94: Standard Guide for General Criteria Used for Evaluating Laboratory Competence*

*ASTM E2090-00: Standard Test Method for Size-Differentiated Counting of Particles and Fibers Released from Clean Room Wipers Using Optical and Scanning Electron Microscopy*

*ASTM F25-68(1999): Standard Test Method for Sizing and Counting Airborne Particulate Contamination in Clean Rooms and Other Dust-Controlled Areas Designed for Electronic and Similar Applications*

*ASTM F311-97(2002): Standard Practice for Processing Aerospace Liquid Samples for Particulate Contamination Analysis Using Membrane Filters*

*ASTM F312-97(2003): Standard Test Methods for Microscopically Sizing and Counting Particles from Aerospace Fluids on Membrane Filters*

#### **2.3 ESD**

*ESD STM11.11-2001: Surface Resistance Measurement of Static Dissipative Planar Materials*

#### **2.4 Institute of Environmental Sciences and Technology (IEST)**

*IEST-RP-CC013-86T: Equipment Calibration or Validation Procedures*

*IEST-RP-CC022.1: Electrostatic Charge in Cleanrooms and Other Controlled Environments*

#### **2.5 International Organization for Standardization (ISO)**

*ISO 14644-1: Cleanrooms and associated controlled environments—Part 1: Classification of air cleanliness*