Garment System Considerations for Cleanrooms and Other Controlled Environments
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IEST-RP-CC003.4

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1 SCOPE AND LIMITATIONS

1.1 Scope
This Recommended Practice (RP) addresses the gowning of personnel as an important aspect of cleanroom contamination control. It provides non-mandatory guidance for the selection, specification, maintenance, and testing of apparel and accessories appropriate for use in non-aseptic and aseptic cleanrooms and other controlled environments. Included with this RP is the supplement, Guide to Measuring Cleanroom Garments, which provides recommended garment measurement specifications.

1.2 Limitations
This RP does not prescribe design or performance requirements for garments, or control limits for specific cleanroom applications, such as food processing. It does not address personal protection or health and safety requirements as related to cleanroom apparel and accessories. Limitations, applicability, precision, and interpretation of data obtained from recommended testing as presented in Appendix B should be considered.

2 REFERENCES
The cited editions of the following documents are incorporated into this Recommended Practice to the extent specified herein. Users should apply the most recent editions of the references.

2.1 American Association of Textile Chemists and Colorists (AATCC)
AATCC Test Method 22: Water Repellency: Spray Test
AATCC Test Method 118: Oil Repellency: Hydrocarbon Resistance Test
AATCC Test Method 127: Water Resistance: Hydrostatic Pressure Test

2.2 Association of the Nonwoven Fabrics Industry (INDA)
INDA Standard Test Method: IST 80.8—Alcohol Repellency

2.3 ASTM International
ASTM D737: Standard Test Method for Air Permeability of Textile Fabrics
ASTM D3776: Standard Test Methods for Mass per Unit Area (Weight) of Fabric
ASTM D3786/D3786M - 09: Standard Test Method for Bursting Strength of Textile Fabrics—Diaphragm Bursting Strength Tester Method