



National Standards Authority of Ireland  
Údarás um Chaighdeáin Náisiúnta na hÉireann

IRISH STANDARD

**I.S. EN 1149-5:2008**

ICS 13.340.10

**PROTECTIVE CLOTHING - ELECTROSTATIC  
PROPERTIES - PART 5: MATERIAL  
PERFORMANCE AND DESIGN  
REQUIREMENTS**

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**EUROPEAN STANDARD**

**EN 1149-5**

**NORME EUROPÉENNE**

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English Version

## **Protective clothing - Electrostatic properties - Part 5: Material performance and design requirements**

Vêtements de protection - Propriétés électrostatiques -  
Partie 5: Exigences de performance des matériaux et de  
conception

Schutzkleidung - Elektrostatische Eigenschaften - Teil 5:  
Leistungsanforderungen an Material und  
Konstruktionsanforderungen

This European Standard was approved by CEN on 10 November 2007.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

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## **Foreword**

This document (EN 1149-5:2008) has been prepared by Technical Committee CEN/TC 162 “Protective clothing including hand and arm protection and lifejackets”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 2008, and conflicting national standards shall be withdrawn at the latest by July 2008.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

## **Introduction**

This European Standard is part of a series of standards for test methods and requirements for electrostatic properties of protective clothing. Different parts are necessary, because of the various fields of application and materials.

EN 1149 consists of the following parts, under the general title "Protective clothing — Electrostatic properties":

- Part 1: Test method for measurement of surface resistivity;
- Part 2: Test method for measurement of the electrical resistance through a material (vertical resistance);
- Part 3: Test methods for measurement of charge decay;
- Part 4: Garment test (under development);
- Part 5: Material performance and design requirements.

A complete garment test is under study. As long as such a test is not available, it may not be possible to perform a full assessment of the electrostatic properties of protective clothing. This set of standards reflects the current state of knowledge.

## **1 Scope**

This European Standard specifies material and design requirements for electrostatic dissipative protective clothing, used as part of a total earthed system, to avoid incendiary discharges. The requirements may not be sufficient in oxygen enriched flammable atmospheres. This European Standard is not applicable for protection against mains voltages.

## **2 Normative references**

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 340:2003, *Protective clothing — General requirements*

EN 1149-1:2006, *Protective clothing — Electrostatic properties — Part 1: Test method for measurement of surface resistivity*

EN 1149-3:2004, *Protective clothing — Electrostatic properties — Part 3: Test methods for measurement of charge decay*

ISO 7000:2004, *Graphical symbols for use on equipment — Index and synopsis*

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