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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 22042-2008

**Clothing -- Electrostatic properties -- Test method for
measurement of surface resistivity**

服装 防静电性能 表面电阻率试验方法

(English Translation)

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Foreword

2006 "Protective clothing - Electrostatic properties - Part 1.. surface resistivity test method" to adopt the European standard EN1149-1 This standard is identical (In English).

For ease of use, this standard made the following editorial changes.

- a) the standard name to "clothing anti-static properties of the surface resistivity test method";
- b) "The European Standard" be replaced by "this standard";
- c) use a decimal point instead of a decimal comma " , " . " , " ;
- d) with the "ln" instead of "loge";
- e) Remove European standard preface, introduction;
- f) Remove European standard informative appendix;
- g) increase information appendix.

NA appendix of this standard is an informative annex.

The standard proposed by China Textile Industry Association.

This standard by the National Standardization Technical Committee apparel (SAC/TC219) centralized.

Drafting of this standard. Wenzhou City of Quality and Technical Supervision and Inspection Institute, Shanghai Institute of clothing.

1 Scope

This standard specifies the test methods to eliminate static electricity spark anti-static protective clothing (or gloves) material used.

This standard does not apply to the anti-material supply voltage protective clothing or gloves used.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

EN340:2003 General requirements for protective clothing

3 Terms and Definitions

The following terms and definitions apply to this standard.

By specific surface electrodes are placed to measure the resistance in ohms (ohm).

Along the surface of the material on opposite sides of a square between the resistance in ohms (ohm).

Note: The surface resistivity of the electrode size has nothing to do, by the surface resistance measured with a suitable factor calculated by multiplying.

Test Method 4

4.1 Principle

The sample is placed on an insulating chassis, and then placing one electrode arrangement on the specimen. The direct current through the electrode device, and then measuring the fabric resistance.

4.2.1 Electrode

By a cylindrical electrode and ring electrodes coaxial components. A stainless steel electrode as shown in Fig. 4.4.2 When in accordance with the when the method of measuring internal and external electrode insulation resistance should not be less than 1014ohm.

4.2.2 Flat chassis

Flat chassis by a surface resistivity of not less than 1014ohm (see 4.4.2), the thickness of 1mm to 10mm between the insulating material composition, and should is greater than the maximum size of the electrode. The chassis used in the measurement of the sample-receiving samples, according to the order placed on the surface of the ground

conductor, such as metal plate.

4.2.3 Resistance Meters

Measuring range resistance meter. 105ohm ~ 1014ohm.

The maximum permissible error. $\leq 1012\text{ohm}$ when, $\pm 5\%$;