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

GB/T 12703.6-2010

**Textile - Evaluation for electrostatic properties - Part 6: Fibre
resistance leak**

纺织品 静电性能的评定 第6部分：纤维泄漏电阻

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Foreword

GB/T 12703 "Evaluation of electrostatic properties of textiles" includes the following seven sections.

--- Part 1. electrostatic voltage half-life;

--- Part 2. surface charge density;

--- Part 3. charge amount;

--- Part 4. resistivity;

--- Part 5. friction charging voltage;

--- Part 6. fiber leakage resistance;

--- Part 7. dynamic static voltage. This section GB/T 12703 Part 6. This part is proposed by the China Textile Industry Association. This part of the National Standardization Technical Committee based textile branch (SAC/TC209/SC1) centralized. This section is drafted. Shaoxing China Textile standard textile testing Limited, National Textile Products Quality Supervision and Inspection Center. The main drafters of this section. Renhe Ning, Wang Baojun, Gongying Qiu, Tian Yuan. Evaluation of electrostatic properties of textiles Part 6. Fiber leakage resistance

1 Scope

GB/T 12703.6-2010 is the Chinese national standard on textile - evaluation for electrostatic properties - part 6: fibre resistance leak, in the field of textile and leather technology. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 14 January 2011 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's

Republic of China; Standardization Administration of China, and has been in force since 1 August 2011. Classification: ICS 59.080.01, CCS W04. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

GB/T 12703 provisions of this part of the test method for all types of short fiber leakage resistance. This section applies to the determination of the leakage resistance of various types of short fibers.

2 Terms and definitions

The following terms and definitions apply

GB/T 12703 in this section.

2.1 Fiber leakage resistance fibrerestistanceleak Characterization of fibers from an indicator of electrostatic nature. It is a different capacity capacitor C fibers and fiber surface resistivity of anti-adhesion Oil and other comprehensive electrostatic discharge resistance R of the time t, multiplying the resistance of the resistive index fiber 10n after the value represented by $t \times 10^n$ (Omega) Fig. Principle

3 The use of resistive and capacitive discharge principle with different fiber resistance R connected across the charge to charge a fixed capacitance (C) ends its discharge rate to measure The resistance value of the amount of fiber.

4 apparatus and appliances

4.1 fiber sample container High insulation plexiglass cylindrical sample container, the bottom electrode of copper and aluminum base plate connection, three equal portions around the cylinder bore insert ball, and with the Spring leaf and plug connections. The other with a weight of 400g ram for pressurizing the same time as another test electrode is connected to the contact plug. As shown in Figure 1. Figure 1 fiber sample container

4.2 Resistance election stopper Resistor selected block is set to $107\Omega \sim 1011\Omega$. Also increased to $106\Omega \sim 1012\Omega$.