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

GB/T 12703.7-2010

**Textile - Evaluation for electrostatic properties - Part 7: Dynamic
voltage of static electricity**

纺织品 静电性能的评定 第7部分：动态静电电压

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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 7. 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, Tian Yuan. Evaluation of electrostatic properties of textiles Part 7. Dynamic static voltage

1 Scope

GB/T 12703.7-2010 is the Chinese national standard on textile - evaluation for electrostatic properties - part 7: dynamic voltage of static electricity, 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 static test method for dynamic voltage textile production. This section applies to the determination of the procedures in the textile and textile goods, textile materials electrostatic properties. Principle

2 The electrostatic induction principle, the test electrode close to the measured body, pushing the meter shows its value amplified by an electronic circuit.

3 devices and appliances

Direct induction static tester. Measurement range 0kV ~ ± 100kV, is divided into three block.

4.1 Carding

4.1.1 Each sampling tests five varieties of machines, such as the lack of the five varieties should test all machines.

4.1.2 When carding machine operation, the test site near the stripper roller or a chopper at the webs, webs were tested left, right, points 3 ~ 5, take the average.

4.1.3 Instrument measuring cylinder port perpendicular to the webs and leave a certain distance, due to irregularities in running webs, do not insert spacer bar. And Article 4.2

4.2.1 each species sampling tests 1 ~ 2 units, measuring its dynamic static voltage when the machine is running, the test site for the pull-out roller rollers shall Article (subject to closure of the new model should open observation port static voltage test at the roller).

4.2.2 Instrument measuring cylinder perpendicular to the sliver, and leave a certain distance, about sweeping survey, drawn monocular values, and then calculate the average of the measured values Eye by recording process analysis.

4.3.1 on each side of the car by the front, and the entire rear of the car measuring less than 5, the measurement site near roller roller at the outlet sliver.

4.3.2 Instrument measuring cylinder vertical sliver opening a certain distance, the measured results are averaged cumulative number of spindles.

4.4 Spinning

4.4.1 on each side of the car from the front, middle and rear of the car at least 10 election test, test site near the front roller nip roller at the instrument measuring tube Perpendicular to the mouth gauze certain distance.

4.4.2 Test data results are averaged.

4.5 Winding

4.5.1 side car Chouce 5, instrument measuring cylinder ports are aligned with the operation of the grooved drum and Cheese, and plastic bobbin ends exposed parts left Right Sweep.

4.5.2 test results averaged data. When the process for analysis, single-spindle recorded separately, are not subject to limits the number of spindles.

4.6 Beaming

4.6.1 test site in the stretch between the reed and the guide roller, shaft, instrument measuring cylinder perpendicular to the yarn discharge port. Each side of the vehicle left-right Chouce 3.00 -

5.00 averaging can also be recorded separately.

4.6.2 Measurement porcelain teeth to the regional electric field between guide bar (a glass rod or metal rod), can be inserted into the instrument measuring cylinder row between yarn layer measurements in the region