

ICS 59.060
CCS W 21



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

GB/T 16257-2008

Replacing GB/T 16257-1996

**Textile fibres -- Test method for length and length distribution of
staple fibres -- Measurement of single fibres**

纺织纤维 短纤维长度和长度分布的测定 单纤维测量法

(English Translation)

Issued on: August 7, 2008

Implemented on: December 1, 2008

Issued by: Standardization Administration of China

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Foreword

This standard and ISO 6989. 1981 "textile fiber staple length and fiber length distribution measurement single measurement" (in English) of Non-equivalent degree of consistency.

This standard and ISO 6989. 1981 as compared to the main technical differences are as follows.

- a) The ISO 6989 standard does not use the first three kinds of test methods. projection;
- b) the number of tests. ISO 6989 test is the number 500, the provisions of this standard stretch breaking fiber and natural fiber test 500, tangent Miter and fiber testing 100.

This standard replaces GB/T 16257-1996 "textile fibers of short fiber length and fiber length distribution measurement single measurement." this standard compared with GB/T 16257-1996, the main changes are as follows.

- a) in the range, delete "This standard does not apply to the present standard methods difficult to implement fiber, or for closely sticking together Fiber bundle ";
- b) Remove the two reference standards;
- c) modify the contents of the principle;
- d) modify the content of instruments and tools chapter;
- e) Modify the sample pre humidity control, humidity control and testing standard atmosphere;
- f) Remove the sample in "or press the parties agreed methods";
- g) remove loose fibers formula sample preparation, and the loose fibers and fiber strips combined sample preparation, while the text description be modify;

h) Remove the number of fibers and additional test formulas to adjust the order of testing methods;

i) The formula has been adjusted and removed two non-common formula;

j) The fiber length distribution (example) as Appendix A.

Appendix A of this standard is an informative annex.

This standard is proposed and managed by China Fiber Inspection Bureau.

This standard was drafted. Shanghai Fibre Inspection.

1 Scope

This standard specifies the test method for short fiber length and fiber length distribution with a single measurement by the root.

This standard applies to textile staple fibers.

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.

GB 6529 textiles conditioning and testing - Standard atmospheres GB/T 8170 numerical rounding rules Principle 3 by measuring the length of root straight fibers, the length of the pitch by a certain group, according to the group of fiber length and the number of calculations to obtain fiber length and Length distribution.

4 Equipment and instruments

a) single fiber length measuring instrument.

b) a transparent glass plate.

c) Cashmere plate (color measurement fiber color contrast color).

d) paraffin oil.

e) nipper and elbow tweezers.

f) ruler. range 150mm, 300mm, dividing the value of 0.5mm.

5 Preset humidity, the humidity and atmospheric testing standard

Presetting wet, the humidity and atmospheric testing using GB 6529 standard secondary standard temperate atmosphere requirements.

6 Sampling

Extraction test according to the test sample corresponding to the type of fiber product standards.

7 Sample Preparation

After the test sample was obtained 7.1 mix randomly removed uniformly 10g fibers, gently pull loose after humidity (no fiber damage), mixed from the front and back even after less than 20 with elbow forceps gripping about 2000 random fibers (such as test samples fiber strips, should be split lengthwise take).

After finishing the hand-pulling down 7.2 boards will be organized into one end of the specimen flush tow, then flush holding one end and the other end into a pen stroke Like, fiber extraction, by pressing the right bottom plate down the length of the bottom line width of the order of uniformly aligned fiber arrangement of FIG. 25cm from the left.