

ICS 59.060.01

CCS W 04



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

GB/T 21293-2007

**Determination of fiber length and distribution parameters --
Almeter method**

纤维长度及其分布参数的测定方法 阿尔米特法

(English Translation)

Issued on: December 5, 2007

Implemented on: September 1, 2008

Issued by: Standardization Administration of China

Table of Contents

Foreword

1 Scope

2 Normative references

3 Terms and Definitions

Foreword

This standard is not equivalent to the International Wool Textile Organization standards IWTO-17-04 "Determination of fiber length distribution parameters and its" (2004 in English), the main differences are as follows.

- a) increased the fiber fleece (special animal hair fiber after carding) direct detection technology content;
- b) to delete the specific operation and data collection AI Mitt analog instrument;
- c) the content of IWTO-17-04 repeated in several chapters referred only keep one;
- d) in accordance with GB/T 1.1-2000 "Standardization Guide Part 1. Standard structure and writing rules" required in the standard Quasi element arrangement provides for formatted text has been modified;
- e) The IWTO-17-04 in the formulation of standards to apply to expression;
- f) by deleting the IWTO-17-04 of "0. history" and "2. Directory" section;
- g) change the IWTO-17-04 "chapter" of the sequence number;
- h) Remove the principle part of Chapter 4 IWTO-17-04 in relation to the working principle of the instrument is not a statement;
- i) Remove the "Notes" IWTO-17-04 interpretative content and interpretive content, "note" included in the corresponding Article of other content;
- j) to adjust the order of the appendix, changing the number of the appendix and the appendix is divided into normative and informative Appendix Appendix.

The Standard Appendix A, Appendix B, Appendix C is normative appendix, Appendix D, Appendix E, Appendix F for the informative appendix.

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

This standard was drafted. Erdos Cashmere Group, National Engineering Research Center

of cashmere products.

1 Scope

This standard specifies the use of Al-Mitte (Almeter) measured the length of wool, cashmere fiber length distribution parameters.

This standard applies to measuring tops and cashmere, including combing the plane, finished tops, finished cashmere, worsted roving.

Non-combing (including combed sliver before half combing, roving woolen, scoured wool or cashmere carding by simple laboratory methods made Sliver) is detected, in accordance with the provisions of Appendix A of.

When carding cashmere directly detected, it Notes in Appendix B.

Cashmere, wool and synthetic fibers mixed with combed sliver, because of the different chemical structure of the fiber, the different dielectric values, so the mix of sliver tests to carefully consider the impact of this when the results were analyzed.

This standard does not apply to shorter average length of 15mm or less in detecting 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

3 Terms and Definitions

The following terms and definitions apply to this standard.

The weighted average fiber length of the cross-section (or linear density), measured assuming the fibers have the same cross-sectional area, the length is also referred to as the number of fibers Weighted average length. H short length.

Multiplying the length of the fiber cross section is the weight weighted average length, due to the density of the fibers can be regarded as constant, so this length is called the weighted the average length. Acronym B length.

And Al Mitt fiber length tester with the use of fiber test sample preparation device.

All the fibers by the exhaust prototype made flush with an end (i.e., the base fibers are

arranged substantially in a straight line, this line length of the fiber direction to the vertical), the test sample having a certain thickness and width.

A hair ball or a bag of cans packed tops, drawn from a sliver in cans, a roving, removed directly from the end of the road gill