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

SN/T 1013-2010

Replacing SN/T 1013-2001

**Method for testing of linear density of cotton, polyester/cotton
woven fabric for import and export**

进出口机织物中纱线的线密度测定方法 棉、涤棉机织物

(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

"Determination of linear density and export of cotton, polyester-cotton woven fabric" Instead of the standard SN/T 1013-2001.

This standard compared with SN/T 1013-2001, the main technical changes are as follows.

- a) determination of the yield point of the yarn, this standard is omitted empirical formula SN/T 1013-2001Y value, standard yield from the point of yarn tester at a certain tension, promote test clip, drawn yarn to yarn into three meter line, the measured bending stretch Long length of the yield point;
- b) for determining the pre-tension, the standard gives two methods, one is in the body of the standard quoted ASTM D1059-01 Regulation Given that the measured yarn linear density estimates, according to 0.25cN/tex without first giving the first pre-tension using yarn Measurer it has curved elongated length, and then follow the linear density of the first measured bending elongated length representation, according to 0.25cN/tex then give the exact tension, then the yarn meter measured the bending of the second extension length. Second, the standard normative appendix, references Type constant elongation (CRE) testing machines, relaxation of the yarn is pre-drawn, according to the force - elongation curve determined pre-tension, to determine the length of the curved elongated;
- c) According to the actual work needs, make fast humidity control method;
- d) cut the sample is determined as 200mm x 200mm² block, to extract the number of each yarn is determined to be 20.

This revised standard adopts the American Society for Testing and Materials standard ASTM D1059-01 "Standard Test Method for Yarn Number Based on Short-Length Specimens". 1. Scope, 10 procedure and 11. Calculation bar.

This standard is proposed and managed by the National Certification and Accreditation

Administration Committee.

This standard was drafted. People's Republic of China Shanghai Entry-Exit Inspection and Quarantine Bureau, Ministry of Education Key Laboratory of textile fabrics (Donghua large learn).

1 Scope

This standard specifies the determination of linear density woven fabrics principles, instruments, reagents, sample preparation, test procedures, calculations and test reports.

This standard applies to the determination of cotton, polyester-cotton woven fabric linear density. This section does not apply to the knitted fabric, pure chemical fiber and other technology integration by terry Special-treated fabric.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member, undated references, the latest edition (including any amendments) applies to this document.

GB/T 14344-2003 chemical fiber staple sampling Principle 3 this part of the definition of linear density, considering the warp preparation and weaving processes formed by stretching, curling and dyeing, finishing plus Influence of Process Engineering yarn linear density, with some way to remove the sizing and dyeing cloth fabric resin softener; measuring tension bending method After the stretched length, its mass, length calculated with correction coefficient obtained.

4 Equipment

4.1

constant temperature water bath.

4.2

fat extractor.

Annex 4.3 Y311 type twist tester. Decomposition needle, 2g tension clamp, weight.

4.4

Analytical balance, minimum scale value of 0.2mg.

4.5

Yarn tester. YG111 type.

4.6

constant elongation (CRE) tester. meet GB/T 14344-2003 5.1 requirements.

4.7

tweezers.

5 Reagents

The reagents used are chemically pure reagent preparation using distilled water or tertiary water.

5.1

anhydrous sodium carbonate.

5.2

neutral soap flakes.

5.3

hydrochloric acid.

5.4

ethanol.

5.5

alkali solution. anhydrous sodium carbonate per liter of distilled water containing 25g, neutral soap flakes 25g.

5.6

with dilute hydrochloric acid solution. a liter of distilled water containing concentrated hydrochloric acid 5mL.

Note: 5.5 and 5.6 solution now with the current.