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

FZ/T 12021-2018

Replacing FZ/T 12021-2009

**Modal grey yarn
(English Translation)**

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Foreword

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

This standard replaces FZ/T 12021-2009 "Modal Fiber Natural Yarn". Compared with FZ/T 12021-2009, the main technical changes Change as follows.

--- Deleted modal fiber and cotton blended natural yarn products from the scope (see Chapter 1);

---Chapter 3 classification and marking were revised, and the linear density of modal fiber natural yarn was deleted;

---In the technical requirements, the breaking strength, the coefficient of variation of breaking strength, the coefficient of variation of evenness, kilometer neps, 100,000 meters of yarn defects, etc.

Made adjustments;

---Expanded the line density assessment range, and the evenness index of the evenness directly uses the coefficient of variation of the evenness for the assessment;

---The sampling regulations have been adjusted to take the cheese sampling as the standard;

---The informative appendix B of the original standard is deleted.

This standard was proposed by the China National Textile and Apparel Council.

This standard is under the jurisdiction of the Cotton Textile Subcommittee of the National Textile Standardization Technical Committee (SAC/TC209/SC10).

Drafting organizations of this standard. Dezhou Hengfeng Textile Co., Ltd., Weiqiao Textile Co., Ltd., Qingdao Fanglian Fiber Technology Co., Ltd., Shanxi Donghuaxing Textile Group

Co., Ltd., China Cotton Textile Industry Association, Shanghai Textile Industry Technology Supervision Institute.

1 Scope

This standard specifies the product classification, identification, requirements, test methods, inspection rules and standards of modal fiber (cotton staple fiber) natural yarn.

Chi, packaging.

This standard applies to ring-spinning modal fiber pure spun natural yarn, compact spinning, compact Siro spinning, Siro spinning, refer to this standard.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 2543.1 Determination of yarn twist in textiles Part 1: Direct counting method GB/T 3292.1 Textile yarn unevenness test method Part 1: Capacitance method GB/T 3916 Determination of breaking strength and breaking elongation of single yarn of textile package yarn (CRE method) GB/T 4743-2009 Determination of the linear density of the skein of textile packages GB/T 8170 Numerical rounding rules and the expression and determination of limit values FZ/T 01050 Classification and inspection method of textile yarn defects capacitive type FZ/T 10007 Cotton and chemical fiber pure spinning, blended natural yarn inspection rules FZ/T 10008 Cotton and chemical fiber pure and blended natural yarn marking and packaging

3 Product classification and identification

3.1

The natural color yarns of modal fiber are classified by different nominal linear densities, and the unit is tex.

3.2

Modal fiber raw material code is Mod.

3.3

When marking the modal fiber natural color yarn, the raw material code of the yarn should be indicated before the line density.

Example. The linear density of modal fiber natural yarn is 18.5tex, which should be written as. Mod18.5tex.

4.1 Project

4.1.1

The technical requirements for modal fiber natural yarn include linear density deviation rate, linear density variation coefficient, breaking strength, breaking strength variation system Seven indicators including number, evenness coefficient of variation, kilometer neps (200%), and 100,000-meter yarn defect.

4.1.2

The technical requirements of modal fiber natural thread include linear density deviation rate, linear density variation coefficient, breaking strength, breaking strength variation system Five indicators including number and twist variation coefficient.

4.2 Classification requirements

4.2.1

Products of the same specification continuously produced by the same raw material and the same process shall be regarded as one or several inspection batches.

4.2.2

Product quality grades are divided into top-grade, first-class, and second-class products, and products lower than the second-class are considered non-standard products.

4.2.3

The quality grade of modal fiber natural yarn is based on the product specifications and the lowest item of the evaluation items in each table is evaluated.