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

FZ/T 12019-2018

Replacing FZ/T 12019-2009

**Polyester fiber 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 12019-2009 "Polyester Color Yarn". The main technical changes compared to FZ/T 12019-2009 are as follows.

- Revised the third chapter classification, marking, and removed the line density of polyester natural yarn;
- Clear scope, including compact spinning and siro spinning products;
- The linear density range has been re-divided, and the coefficient of variation of breaking strength, breaking strength, linear density coefficient of variation, and uniformity of strip drying Adjustment of indicators such as different coefficients and 100,000 meters of yarn defects;
- Single yarn technology requires an increase of kilometer neps (200%) assessment indicators, delete the uniformity content of the blackboard;
- Strand technology requires an increase in the coefficient of variation of the twist, and removes the assessment requirements for the 100,000-meter yarn defect of the strand;
- Sampling regulations have been adjusted.

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

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

This standard was drafted. Nantong Shuanghong Textile Co., Ltd., Changle City, Fujian Province, Jinyuan Textile Co., Ltd., Xinhua Yuan, Changle City, Fujian Province Textile Co., Ltd., Weiqiao Textile Co., Ltd., Fujian Lizhi New Material Co., Ltd., Shanghai Textile Industry

Technology Supervision Institute, China Cotton Textile Industry Association.

1 Scope

This standard specifies the classification, marking, requirements, test methods, inspection rules and signs, packaging of polyester (cotton fiber) natural yarn products.

This standard applies to ring spinning (including compact spinning, siro spinning) polyester natural yarn, not suitable for special purpose polyester natural yarn.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

Textiles -- Determination of twist of textiles - Part 1. Direct notation GB/T 3292.1 Test methods for dryness of textile yarns - Part 1 GB/T 3916 Textile yarns - Determination of breaking strength and elongation at break of single yarns (CRE method) GB/T 4743-2009 Determination of normal density of skein of textile packaged yarn GB/T 8170 Numerical Rounding Rules and Representation and Determination of Limit Values FZ/T 01050 Grading and inspection methods for textile yarn defects - Capacitive FZ/T 10007 cotton and chemical fiber pure spinning, blended natural yarn inspection rules FZ/T 10008 cotton and chemical fiber pure-spun, blended natural yarn logo and packaging

3 Product classification, marking

3.1

Polyester natural yarn products are classified by different nominal linear density, and the unit is tex.

3.2

Polyester raw material code is T.

3.3

When marking the polyester natural yarn, the raw material code of the yarn should be marked before the online density.

Example. Polyester natural yarn has a linear density of 18.5 tex and should be written as. T18.5tex.

4.1 Project

4.1.1

Technical requirements for polyester natural yarn include linear density deviation rate, linear density coefficient of variation, single yarn breaking strength, single yarn breaking strength variation system Seven indicators, such as number, strip uniformity coefficient of variation, kilometer cotton knot (200%), and 100,000 meters of yarn defect.

4.1.2

Technical requirements for polyester natural color line include linear density deviation rate, linear density coefficient of variation, single-line breaking strength, single-line breaking strength variation system Five indicators, such as number and coefficient of variation.

4.2 Classification regulations

4.2.1

The same specification and continuous production of the same specification of the same product as one or several inspection lots.

4.2.2

The product quality grade is divided into superior products, first-class products, second-class products, etc., which are lower than second-class products.

4.2.3

The quality grade of polyester natural yarn is evaluated according to the product specifications and the lowest item in the assessment project.