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

FZ/T 32003-2022

**Linen and polyester blended grey yarn
(English Translation)**

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Table of Contents

- Foreword
- 1 Scope
- 2 Normative references
- 3 Terms and Definitions
- 4 Product classification and marking
 - 4.1 Product classification
 - 4.2 Marking

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1: Structure and Drafting Rules for Standardization Documents" drafting.

This document replaces FZ/T 32003-2010 "Polyester (Linen) Yarn". Compared with FZ/T 32003-2010, the main technical changes are as follows.

- The standard name "polyester linen (linen) yarn" is changed to "natural color yarn blended with linen and polyester";
- Deleted the chapter "Specifications" (see Chapter 3 of the 2010 edition);
- Added "terms and definitions" (see Chapter 3)
- Increased "product classification, marking" (see Chapter 4);
- Adjusted the order of "grading regulations" and "technical requirements" (see Chapter 5);
- The technical requirements for flax and polyester blended yarn are based on the blending ratio of flax and polyester (the content of flax is 50% and above and the content of flax is 30% and above ~ 50% or less) classification (see Table 1, Table 2);
- Deleted the "coefficient of variation of 100-meter weight" and "100-meter weight deviation" (see Table 1, Table 2, Table 1 of the 2010 edition);
- Added "Linear Density Variation Coefficient" and "Linear Density Deviation Rate" (see Table 1, Table 2, Table 1 of the 2010 edition);
- "Blackboard evenness/block" is changed to "coefficient of variation of evenness/%", and hemp grains (piece/100m) are changed to hemp grains (280%)/(piece/km), delete the

inspection items (piece/400m), and modify the corresponding inspection method synchronously (see Table 1, Table 2,

Table 1 of the 2010 edition);

---Delete the content of the blackboard test for dryness, roughness and graininess (see 5.3.4 of the 2010 edition);

--- Modified the inspection rules (see Chapter 7);

--- Added Appendix A and Appendix B.

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

1 Scope

This document specifies the requirements for flax (flax fiber content not less than 30%) and polyester blended natural color yarn (hereinafter referred to as flax polyester blended yarn) Terms and definitions, product classification and marking, requirements, test methods, inspection rules, packaging and marking.

This document is applicable to flax-polyester wet-spun blended natural color yarn produced by ring-spinning wet-spinning technology, and bleached linen-polyester blended yarn can be implemented as a reference.

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references for documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to this document.

GB/T 2910.11 Quantitative chemical analysis of textiles - Part 11: Mixtures of cellulose fibers and polyester fibers (sulfuric acid method) GB/T 3292.1 Test methods for unevenness of textile yarns - Part 1: Capacitance method GB/T 3916 Determination of breaking strength and elongation at break of single yarn of textile package yarn (CRE method) GB/T 4743-2009 Determination of linear density of textile package yarn hank GB/T 8170 Numerical rounding off rules and expression and determination of limit values GB/T 9994 Moisture regain of textile materials FZ/T 10007 Cotton and chemical fiber pure and blended natural color yarn inspection rules FZ/T 10008 Cotton and chemical fiber pure and blended yarn marking and packaging

3 Terms and Definitions

The following terms and definitions apply to this document.

hemp grain neps

Grainy blemishes formed by kinks or aggregations of hemp fibers.

4.1 Product classification

4.1.1

Blending of flax and polyester The yarn is spun with different fiber blending ratios (the flax content is 50% and above and the flax content is 30% and above~ 50%) and line density classification.

4.1.2

The linen and polyester blended yarn adopts the wet spinning process, that is, it is spun into roving, boiled and bleached, and then wet spun into spun yarn.

4.1.3

The linear density of linen and polyester blended yarn is expressed by the mass (g) of 1000m yarn at a given moisture regain, and the unit is tex (tex).

4.2 Marking

4.2.1

The raw material code of linen and polyester blended yarn can be represented by English letters. the code of linen is L, and the code of polyester is T.

4.2.2

The blending ratio of linen and polyester blended yarns is expressed in a conventional mass ratio and marked in descending order of fiber content.