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

FZ/T 12023-2021

**Meta-aramid fiber grey yarn
(English Translation)**

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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 of Standardization Documents" Drafting.

This document replaces FZ/T 12023-2011 "Aramid 1313 Natural Yarn", compared with FZ/T 12023-2011, the main technical changes as follows.

---The file name is adjusted to "Meta-aramid Natural Yarn";

---Increase the evaluation index of the linear density range of meta-aramid natural yarn "6.0tex~6.9tex" and "7.0tex~7.9tex" (see Table 1);

---The single yarn index adds the "kilometer neps (200%)" assessment item, and the strand index adds the "twist variation coefficient" assessment item (See Table 1, Table 2, 2011 Edition of Table 1, Table 2);

---Adjusted the single yarn breaking strength and the variation coefficient of single yarn evenness. (See Table 1, Table 2, 2011 Edition of Table 1, Table 2);

--- Deleted the technical requirements for aramid 1313 fiber (cotton type) natural yarn (see Table 3 and Table 4 of the 2011 edition);

--- The sampling regulations have been deleted, and the number and frequency of tests shall be implemented in accordance with the requirements of each test method (see Table 5 in the 2011 edition);

---Deleted the numerical rounding rules for calculated values (see Table 6 of the 2011 edition);

---The informative appendix A of the original document was deleted, and appendix B of the original document was adjusted to appendix A of the current document.

1 Scope

This document specifies the terms and definitions, product classification, marking, requirements, test methods, inspection rules and signs, package.

This document is applicable to ring-spun natural yarns produced with medium and long meta-aramid staple fibers.

2 Normative references

The contents of the following documents constitute the indispensable clauses of this document through normative references in the text. Among them, dated quotations Only the version corresponding to that date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable 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 the textile package yarn 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 yarn marking and packaging

3 Terms and definitions

The following terms and definitions apply to this document.

Meta-aramid fiber

Polymeta-xylylene isophthalamide fiber.

Aramid 1313

A linear macromolecule composed of amide groups connected to the meta-benzene ring, in which at least 85% of the amide bonds are directly connected to the two benzene rings Between.

[Source. GB/T 31889-2015, 3.1] 3.2 Thermal stability Changes in the shape of the yarn under the influence of a certain temperature.

4 Product classification and marking

4.1

Meta-aramid natural yarns are classified in different linear densities.

4.2

The raw material code of meta-aramid natural yarn is FL1313.