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

FZ/T 12024-2021

**Indigo dyed cotton 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 12024-2011 "Indigo dyed cotton yarn", compared with FZ/T 12024-2011, the main technical changes as follows.

---Adjusted the classification and marking of indigo dyed cotton yarn (see Chapter 4, Chapter 3 of the 2011 edition);

---Adjust the linear density deviation rate index, and evaluate the indicators of excellent, first-class, and second-class products (see Table 1~Table 4, 2011 edition

Table 1~Table 4);

---Improve the linear density coefficient of variation index (see Table 1 to Table 4, and Table 1 to Table 4 in the 2011 edition);

---Adjust single yarn breaking strength, single yarn breaking strength variation coefficient index;

---Increase the evaluation index of twist variation coefficient;

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

---Deleted the provisions for revising the calculated value (see Table 6 in the 2011 edition).

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

This document is under the jurisdiction of the Cotton Textile Subcommittee of the National

Textile Standardization Technical Committee (SAC/TC209/SC10).

Drafting organizations of this document. Jiangsu Zhongheng Dyeing and Finishing Co., Ltd., Shanghai Textile Industry Technical Supervision Institute, Zhejiang Chunjiang Textile Group Co., Ltd.

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1 Scope

This document specifies the product classification, marking, requirements, test methods, inspection rules, markings, and packaging of indigo dyed cotton yarn.

This document is applicable to indigo dyed cotton yarn for denim, and black, black and gray dyed cotton yarn for denim can be implemented with reference to this document.

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 250 Gray Sample Card for Textile Color Fastness Test Evaluation GB/T 2543.1
Determination of yarn twist in textiles Part 1: Direct counting method GB/T 2543.2
Determination of Twist of Textile Yarn Part 2: Untwisting and Twisting 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 GB 18401 National Basic Safety Technical Code for Textile Products FZ/T 01050 Classification and Inspection Method of Textile Yarn Defects Capacitive Type FZ/T 10008 Cotton and chemical fiber pure and blended yarn marking and packaging FZ/T 10021-2013 Colored Spinning Yarn Inspection Rules

3 Terms and definitions

There are no terms and definitions that need to be defined in this document.

4 Product classification and marking

4.1

Indigo dyed cotton yarns are classified according to different production processes and linear densities.

4.2

The production process and raw material code of indigo dyed cotton yarn are expressed in English letters. carded cotton code is C, combed cotton code is JC.

4.3

When marking indigo-dyed cotton yarn, the color (or code) and raw material name (or code) of the yarn should be indicated before the line density.

Example 1. Indigo carded cotton yarn with a linear density of 13.0tex can be written as. indigo C13.0tex.

Example 2. The linear density is 13.0tex indigo combed cotton double-strand thread, which can be written as. indigo JC13.0texx2.

5.1 Project

5.1.1

The technical requirements of indigo dyed cotton single yarn include linear density deviation rate, linear density variation coefficient, single yarn breaking strength, single yarn breaking strength