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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 24345-2025

Replacing GB/T 24345-2009

Package-dyed yarns

筒子染色纱线

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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 for standardization documents" Drafting. This document replaces GB/T 24116-2009 "Cheese-dyed yarn for knitting" and GB/T 24345-2009 "Cheese-dyed yarn for weaving" This document is based on GB/T 24345-2009 and integrates the contents of GB/T 24116-2009. Compared with the previous version, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

- Changed the scope of application (see Chapter 1, Chapter 1 of GB/T 24345-2009);
- Deleted the term and definition "sample difference" (see 3.3 of GB/T 24345-2009);
- Added product classification and marking (see Chapter 4);
- Changed some intrinsic quality requirements (see Table 1, Table 1 of GB/T 24345-2009);
- Changed some appearance quality requirements (see Table 2, Table 2 of GB/T 24345-2009);
- Deleted the following items. color fastness to dry heat, single yarn breaking strength reduction rate, single yarn breaking strength, coefficient of variation, coefficient of variation of weight per 100 meters, Test method for meter weight deviation (see 5.5, 5.11, 5.12 of GB/T 24345-2009);
- The test methods for coefficient of variation of fiber content and evenness uniformity have been changed (see 6.1, 6.14, 5.10, 5.13);
- Added odor, light and sweat composite color fastness, linear density deviation rate, linear density variation coefficient, breaking strength, breaking strength variation coefficient Test methods for numbers (see 6.4, 6.11, 6.12, 6.13, 6.15, 6.16);
- Changed the inspection rules (see Chapter 7, Chapter 6 of GB/T 24345-2009);

--- Changed the marking, packaging, storage and transportation (see Chapter 8, Chapter 7 of GB/T 24345-2009). Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents. This document was proposed by the China National Textile and Apparel Council. This document is under the jurisdiction of the National Technical Committee on Standardization of Textiles (SAC/TC209). This document was drafted by: Fujian Jinjiang Huayu Weaving Co., Ltd., Wuhu Fuchun Dyeing and Weaving Co., Ltd., Shaoxing Guozhou Textile Finishing Co., Ltd. Co., Ltd., Zhejiang Ganglong Weaving Technology Co., Ltd., Shengzhou Youngor Wool Textile Co., Ltd., China Textile Standard Inspection and Certification Co., Ltd., Hebei Ningfang Group Co., Ltd., Wuxi Dongbao Machinery Manufacturing Co., Ltd., Shandong Mingfu Dyeing Co., Ltd., Fujian Jinjiang Benda Printing and Dyeing Co., Ltd., Fujian Jinjiang Xiesheng Weaving and Dyeing Co., Ltd., and Anhui University of Technology. The main drafters of this document are. Fan Rong, Su Chengyu, Huang Zhongli, Lü Jing, Zhu Dan, Zhou Xinxiang, Tan Yang, Yu Shiqi, Liu Ruining, Yang Qing, Zheng Guoquan, Yang Yilan, Wang Zongqian, Tao Huaguan, Chen Taiming, Pan Jialong, Wang Chungang, Zhang Shuyi, Tu Mingjun, Jiang Guofang. The previous versions of this document and the documents it replaces are as follows:

1 Scope

GB/T 24345-2025 is the Chinese product standard for package-dyed yarn: yarn dyed on the cone or cheese rather than as fibre or as fabric. It is the way most yarn for knitting and for yarn-dyed weaving is coloured, and its characteristic defect is the one the standard is largely written around, unevenness of shade between the inside and the outside of the package and between one package and the next in the same batch. The document sets the classification, the requirements on the yarn count and its variation, the strength and elongation, the twist, the evenness and the imperfections, the colour requirements including the shade difference within and between packages and the colour fastness to washing, water, perspiration, rubbing and light, the requirements on the package build and on residual moisture, the appearance quality and the grading, together with the test methods, the inspection rules and the marking, packaging, transport and storage. The 2025 edition replaces GB/T 24345-2009. For a dyehouse, a knitter or a weaver in China, this is the acceptance text.

2 Normative references

The contents of the following documents constitute essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 250 Textiles - Grey scale for colour fastness tests

GB/T 2910 (all parts) Quantitative chemical analysis of textiles

GB/T 2912.1 Determination of formaldehyde in textiles - Part

GB/T 3916 Textiles - Determination of breaking strength and elongation of single yarn in packaged yarn (CRE method)

GB/T 3920 Textiles - Tests for colour fastness - Colour fastness to rubbing

GB/T 3921-2008 Textiles - Tests for colour fastness - Colour fastness to washing with soap

GB/T 3922 Textiles - Tests for colour fastness - Colour fastness to perspiration

GB/T 4743 Textiles - Determination of linear density of skeined yarn in package

GB/T 5713 Textiles - Tests for colour fastness - Colour fastness to water

GB/T 7573 Determination of pH value of aqueous extract of textiles

GB/T 8427-2019 Textiles - Tests for colour fastness - Colour fastness to artificial light. Xenon arc fading

GB/T 14576 Textiles - Tests for colour fastness - Composite colour fastness to light and perspiration

GB/T 17592 Determination of banned azo dyes in textiles

GB 18401 National basic safety technical specification for textile products

GB/T 29862 Labelling of fibre content of textiles FZ/T 01026 Quantitative chemical analysis of textiles - Multi-component fiber mixtures FZ/T 01057 (all parts) Test methods for identification of textile fibers

3 Terms and definitions

The terms and definitions defined in GB/T 3291.1 and the following apply to this document.

3.1 colordifferencebetweendyedcorns The color difference between cones of yarn dyed in the same vat. [Source: GB/T 5705-2018, 6.14]