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TEXTILE INDUSTRY STANDARD OF
THE PEOPLE'S REPUBLIC OF CHINA

ICS 59.080.30

CCS W 63

FZ/T 73017-2023

Replacing FZ/T 73017-2014

Knitted homeware

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Issued on: December 20, 2023

Implemented on: July 01, 2024

Issued by: Ministry of Industry and Information Technology of PRC

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Knitted homeware

1 Scope

This document specifies the terms and definitions, product types, requirements, tests, sampling rules, judgment rules, product instructions, packaging, transportation, storage of knitted homeware.

This document applies to homeware made mainly of knitted fabrics.

This document does not apply to infant clothing for children aged 36 months and below.

2 Normative references

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

GB/T 251 Textiles - Tests for colour fastness - Grey scale for assessing staining

GB/T 1335 (all parts) Standard sizing systems for garments

GB/T 2910 (all parts) Textiles - Quantitative chemical analysis

GB/T 2912.1 Textiles - Determination of formaldehyde - Part 1: Free and hydrolyzed formaldehyde (water extraction 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 or soap and soda

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

GB/T 4802.1-2008 Textiles - Determination of fabric propensity for fuzzing and pilling - Part 1: Circular locus method

GB/T 4856 Package of cotton goods and knitwear

GB/T 5296.4 Instructions for use of products of consumer interest - Part 4: Textiles and apparel

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

GB/T 6411 A series of size of knitted underwear

GB/T 6529 Textiles - Standard atmospheres for conditioning and testing

GB/T 7573 Textiles - Determination of pH of aqueous extract

GB/T 8170 Rules of rounding off for numerical values and expression and judgement of limiting values

GB/T 8629-2017 Textiles - Domestic washing and drying procedures for textile testing

GB/T 8878 Knitted underwear

GB/T 17592 Textiles - Determination of the banned azo colourants

GB 18401 National general safety technical code for textile products

GB/T 19976-2005 Textiles - Determination of bursting strength - Steel ball method

GB/T 29862 Textiles - Identification of fiber content

GB/T 31127-2014 Textiles - Tests for colour fastness - Colour fastness to transfer in joints

GB 31701 Safety technical code for infants and children textile products

GB/T 38015 Textiles - Quantitative chemical analysis - Mixtures of elastane and certain other fibers

FZ/T 01026 Textiles - Quantitative chemical analysis - Multinary fiber mixtures

FZ/T 01057 (all parts) Test methods for identification of textile fibers

FZ/T 01101 Textile test method - Fiber content - Quantitative physical analysis

GSB 16-1523 Sample photos of pilling of knitted fabrics

GSB 16-2159 Standard depth color card for knitted products (1/12)

GSB 16-2500 Color sample photos of surface defects of knitted fabrics

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Homeware

Clothing mainly suitable for home wear, including pajamas, home leisure clothes, etc.

4 Product size

It follows the requirements of GB/T 6411 or GB/T 1335 (all parts). The size beyond the standard range shall be increased or decreased in sequence, according to the grade value and principle specified in the standard.

5 Requirements

5.1 Grading rules

5.1.1 Quality grades are divided into superior products, first-class products, qualified products.

5.1.2 Intrinsic quality is graded by batches; appearance quality is graded by piece; the combination of the two is graded based on the lowest grade.

5.1.3 The lowest test result of each intrinsic quality indicator is used as the basis for the evaluation of the batch of products.

5.1.4 When appearance quality problems of different grades are found on the same product, the lowest grade shall be adopted. Only two limit surface defects of the same grade are allowed on the same product. If more than two defects are found, the product shall be downgraded by one grade.

5.2 Intrinsic quality requirements

5.2.1 See Table 1 for intrinsic quality requirements.

body, except for special designs.

5.3.4.6 For patterned fabrics, the whole body shall be consistent in direction with the main pattern as prevailing.

6 Tests

6.1 Internal quality inspection

6.1.1 Preparation and test conditions

6.1.1.1 The specimen shall not have defects that affect the test.

6.1.1.2 Before the test of dimensional change rate after washing and distortion rate after washing, it is necessary to condition the humidity according to the standard atmosphere specified in GB/T 6529; then conduct the test after the humidity conditioning meets the requirements.

6.1.2 Test methods

6.1.2.1 Fiber content

It is performed according to the requirements of GB/T 2910 (all parts), GB/T 38015, FZ/T 01026, FZ/T 01057 (all parts), FZ/T 01101, etc.

6.1.2.2 Formaldehyde content

It is performed according to the requirements of GB/T 2912.1.

6.1.2.3 pH value

It is performed according to the requirements of GB/T 7573.

6.1.2.4 Odor

It is performed according to the requirements of GB 18401.

6.1.2.5 Decomposable carcinogenic aromatic amine dyes

It is performed according to the requirements of GB/T 17592.

6.1.2.6 Bursting strength

It is performed according to the requirements of GB/T 19976-2005; the diameter of the steel ball is (38 ± 0.02) mm.

6.1.2.7 Size change rate after washing

6.1.2.10 Color fastness to water

It is performed according to GB/T 5713.

6.1.2.11 Color fastness to perspiration

It is performed according to GB/T 3922.

6.1.2.12 Color fastness to rubbing

It is performed according to GB/T 3920, only in vertical direction.

6.1.2.13 Color fastness to splicing staining

It is performed according to method A in GB/T 31127-2014. For fabrics or products with added teeth whose specimen size does not meet the requirement of (100 ± 2) mm $\times$ (40 ± 2) mm, it can be cut according to the maximum size of the actual specimen; then the two specimens can be combined along the short edge to form a combined specimen.

6.1.2.14 Degree of staining by washing liquid

Prepare and wash the specimen according to method A (1) in GB/T 3921-2008. Then filter with qualitative filter paper (medium speed), to remove impurities in the residual soap solution. Pour the filtered soap solution into a colorimetric tube with a diameter of 25 mm. Pour the unwashed soap solution with the same temperature as the test temperature into another colorimetric tube (diameter 25 mm) as a reference specimen. Under D65 standard light source, with white cardboard without fluorescent brightener as the background, place the cardboard on the grading rack, to evaluate the degree of staining of the washing liquid according to GB/T 251. The amount of soap solution poured into the colorimetric tube is about 50 mL. During the grading, the distance between the colorimetric tube and the white cardboard is about 10 cm, to avoid interference from the shadow of the colorimetric tube. The grading must be completed within 15 minutes.

6.1.2.15 Pilling

It is performed according to the provisions of Method E in GB/T 4802.1-2008. The grading shall be based on the sample evaluation of pilling of knitted fabrics in GSB 16-1523.

6.1.2.16 Appearance after washing

Wash and dry according to the provisions of the test method for dimensional change after washing in this document; evaluate the washed garments piece by piece according to the requirements of the appearance items after washing in Table 1.

6.2 Appearance quality

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