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FZ

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

FZ/T 73067-2020

**Touch cool feeling knitted clothing
(English Translation)**

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Table of Contents

Foreword	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	6
4 Product size designations	6
5 Requirements	7
6 Inspection rules	10
7 Sampling rules	16
8 Judgement rules	16
9 Product instructions for use, packaging, transportation, and storage	17

1 Scope

This Standard specifies the terms and definitions, product size designations, requirements, inspection rules, sampling rules, judgement rules, as well as product instructions for use, packaging, transportation, and storage for touch cool feeling knitted clothing.

This Standard applies to knitted clothing manufactured mainly from knitted fabrics with contact transient cool feeling.

This Standard does not apply to clothing for infants and young children aged 36 months and under.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 250 Textiles - Tests for colour fastness - Grey scale for assessing change in colour
 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 & expression and judgement of limiting values GB/T 8427-2019 Textiles - Tests for color fastness - Color fastness to artificial light.

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GB/T 8629-2017 Textiles - Domestic washing and drying procedures for textile testing GB/T 8878 Knitted underwear GB/T 14576 Textiles - Tests for colour fastness - Colour fastness to light of textiles wetted with artificial perspiration GB/T 14801 Test method for skewness and bow in woven and knitted fabrics 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 The safety technical code for infants and children textile products GB/T 31907-2015 Method of garment measurement GB/T 35263-2017 Textiles - Testing and evaluation for cool feeling in contact instant FZ/T 01026 Textiles - Quantitative chemical analysis - Multinary fibre mixtures FZ/T 01031-2016 Knitted fabric and elastic woven fabric - Determination of maximum force to seam rupture and elongation - Grab method FZ/T 01057 (all parts) Test method for identification of textile fibers FZ/T 01101 Textile test method - Fiber content - Quantitative physical analysis FZ/T 30003 Method for quantitative analysis of ramie (flax hemp) cotton blended textile - Micro projection GSB 16-1523 Filling standard of knitted fabric GSB 16-2159 Color cards of standard depths for knitted products (1/12) GSB 16-2500 Defect appearance replicas of knitted fabric

3 Terms and definitions

For the purpose of this document, the following terms and definitions apply.

contact transient cool feeling Cool feeling perceived by the brain when the skin comes into contact with a fabric at a lower temperature, causing rapid heat loss from the skin surface and a sudden drop in skin temperature, which triggers a response in the sensory nerve endings.

[GB/T 35263-2017, definition 3.1] 3.2 contact cool feeling coefficient $q_{\max}$ Maximum heat flux in the heat-transfer process after the heat-testing plate, which is at a temperature higher than the specified temperature difference relative to the specimen, comes into contact with the specimen under a certain pressure.

NOTE: The unit for $q_{\max}$ is joules per square centimeter per second [$\text{J}/(\text{cm}^2 \cdot \text{s})$].

[GB/T 35263-2017, definition 3.2]

4 Product size designations

It shall be implemented in accordance with GB/T 1335 (all parts) or GB/T 6411; for size designations outside the specified ranges, increment or decrement sequentially according to the grading principles specified in the standards.

5.1 Grading provisions

5.1.1

The quality grades are classified into superior grade, first grade, and qualified grade.

5.1.2 Product quality grading. appearance quality is graded by piece, while inherent

quality is graded by batch; the final grade is determined by the lower of the two grades.

5.1.3 Among all indicators of inherent quality, the lowest test result shall be taken as the grading basis for the batch.

5.1.4 When appearance-quality defects of different grades are found on one single

product, the product shall be graded according to the lowest grade. Only two limiting surface defects of the same grade are permitted on one single product; if more than two occur, the grade shall be reduced by one level.

5.2 Inherent quality requirements

5.2.1

Inherent quality requirements are given in Table 1.

Table 1 -- Inherent quality requirements

5.2.2

For fabrics with brushed or raised face or dark-colored fabrics of garments, the color fastness to wet rubbing for qualified grade may be reduced by half a grade compared with this Standard. Color fastness to water, perspiration, rubbing and washing with soap or soap and soda shall not be assessed for natural-white and bleached products.

Color fastness to transfer in joints shall be assessed for products spliced with dark- and light-colored fabrics.

5.2.3 Pilling shall be assessed only on the face side of products; with brushed

or raised face shall not be assessed for pilling.

5.2.4 Bursting strength shall not be assessed for elastic fabrics, hollow-out fabrics, striped-draw fabrics, burnt-out fabrics and other similar products (elastic fabrics refer to products incorporated with elastic fibers or rib fabrics).

5.2.5 Children's products shall also comply with the provisions of GB 31701.