

Translated English of Chinese Standard: GB/T14576-2009

www.ChineseStandard.net

Sales@ChineseStandard.net

GB

NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

ICS 59.080.01
W 04

GB/T 14576-2009

Replacing GB/T 14576-1993

Textiles - Tests for Colour Fastness - Colour Fastness to Light of Textiles Wetted with Artificial Perspiration

纺织品 色牢度试验 耐光、汗复合色牢度

(ISO 105-B07:2009, Textiles - Tests for Colour Fastness –

Part B07: Colour Fastness to Light of Textiles Wetted with Artificial Perspiration, MOD)

GB/T 14576-2009 How to BUY & immediately GET a full-copy of this standard?

1. www.ChineseStandard.net;
2. Search --> Add to Cart --> Checkout (3-steps);
3. No action is required - Full-copy of this standard will be automatically & immediately delivered to your EMAIL address in 0~25 minutes.
4. Support: Sales@ChineseStandard.net. Wayne, Sales manager

Issued on: June 19, 2009

Implemented on: February 1, 2010

**Issued by: General Administration of Quality Supervision, Inspection
and Quarantine of the People's Republic of China;
Standardization Administration of the People's Republic of
China.**

Table of Contents

Foreword	3
1 Scope	5
2 Normative References	5
3 Principle	5
4 Apparatus and Materials	6
5 Preparation of Perspiration	6
6 Test Specimens	7
7 Operation Procedures	7
8 Rating	8
9 Test Report	8

Foreword

This standard is modified in relation to ISO 105-B07:2009 "Textiles - Tests for Color Fastness - Part B07: Complex Colour Fastness to Light-perspiration" (English version). Compared with ISO 105-B07:2009, the main differences of this standard are as follows:

- Delete introduction and bibliography;
- Replace the international standard in Normative References with corresponding national or professional standard, and add reference to GB/T 730 and AATCC TM 15;
- Add carbon arc lamp light fastness test equipment in the Chapter of Equipment and Materials;
- Add sampling methods for different test specimens in Chapter 6; the test specimen dimension is changed to "not less than 45mm×10mm" from "not less than 40mm×10mm";
- Carry out editorial changes to Chapter 7; "blue wool standard sample" is changed to "blue wool standard sample 4"; specify exposure end point and the temperature of Grade 3 water for laundering, and add an annotation with regard to using blue wool standard sample.

This standard replaces GB/T 14576-1993 "Textiles - Testing Method for Complex Colour Fastness to Light and Perspiration".

Compared with GB/T 14576-1993, the main changes of this standard are as follows:

- Extend the application scope;
- Add FZ/T 01024 and AATCC TM 15 in Normative References; delete GB/T 7565;
- Modify Chapter 3: Principle;
- Add descriptions to balance, pH meter, artificial perspiration, Grade 3 water and spectrophotometer or color shading meter to Chapter 4; delete light and perspiration test container and cotton adjacent fabrics;
- Add perspiration formula and a kind of sour perspiration specified in AATCC TM 15 in Chapter 5;
- Modify Chapter 6: Test Specimen; add sampling method of different specimens;
- Delete Method A in the original standard;

Textiles - Tests for Colour Fastness - Colour Fastness to Light of Textiles Wetted with Artificial Perspiration

1 Scope

This standard specifies a test method of determining artificial light action colour fastness for textile test specimen under the action of perspiration.

This standard is applicable to various textiles.

2 Normative References

The following normative documents contain the provisions which, through reference in this text, constitute the provisions of this standard. For dated reference, the subsequent modifications (excluding correction) or revisions of these publications do not apply. However, all parties who reach an agreement according to this standard are encouraged to study whether the latest edition of these documents is applicable. For undated references, the latest edition of the normative documents referred to applies.

GB/T 250 Textiles - Tests for Colour Fastness - Grey Scale for Assessing Change in Colour (GB/T 250-2008, ISO 105-A02:1993, IDT)

GB/T 730 Textiles - Tests for Colour Fastness - Quality Control of Blue Wool Reference Materials 1 to 7 (GB/T 730-2008, ISO 105-B08:1995, MOD)

GB/T 3922 Textiles - Testing Method for Colour Fastness to Perspiration (GB/T 3922-1995, eqv ISO105-E04:1994)

GB/T 6682 Water for Analytical Laboratory Use - Specification and Test Methods (GB/T 6682-2008, ISO 3696:1987, MOD)

GB/T 8427 Textiles - Tests for Colour Fastness to Artificial Light - Xenon Arc Fading Lamp Test (GB/T 8427-2008, ISO 105-B02:1994, MOD)

F7/T 01024 Instrumental Assessment of Change in Colour for Determination of Grey Scale Rating (FZ/T 01024-1993, neq ISO 105-A05:1992)

FZ/T O1096 Textiles - Tests for Colour Fastness-Colour Fastness to Artificial Light: Carbon Arc

AATCC TM 15 Colour Fastness to Perspiration

3 Principle

requirements of GB/T 8427.

Note: Other blue wool standard samples may also be adopted and each party concerned shall negotiate and determine in advance.

7.5 Install the white plate fixed with test specimen and blue wool standard sample to the specimen holder respectively.

7.6 Place the specimen holder installed with test specimen AND the blue wool standard sample in the exposure bin of light fastness tester; carry out exposure according to any exposure condition specified in GB/T 8427 or FZ/T 01096. The exposure condition shall be negotiated by parties concerned in advance. The light filtration system and irradiance of light fastness tester shall meet the requirements of GB/T 8427 or FZ/T 01096.

7.7 Continuously expose to the sun till the color change of blue wool standard sample 4 reaches Grade 4-5 of gray scale or reaches the color fading rating that is negotiated by relevant parties concerned in advance; assess with grey scale (4.3) or meter (4.9); then the exposure may be terminated.

7.8 Take out the test specimen; wash with room temperature Grade 3 water for 1min; then hang it for drying in air at temperature not exceeding 60°C.

8 Rating

Assess the change in colour of the specimen with grey scale (4.3) or meter (4.9).

9 Test Report

The test report shall include the following content:

- a) The test is carried out in accordance with this standard;
- b) Detailed information of relevant test specimens;
- c) Category of perspiration used;
- d) Blue wool standard sample used and numerical rating at the exposure end point;
- e) Numerical rating of complex colour fastness to light and perspiration of the specimen corresponding to every kind of perspiration used;
- f) The model of light fastness tester used and the exposure condition;
- g) Any deviation from this standard;

This is an excerpt of the PDF (Some pages are marked off intentionally)

Full-copy PDF can be purchased from 1 of 2 websites:

1. <https://www.ChineseStandard.us>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Select your country (currency), for example: USA (USD); Germany (Euro).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Tax invoice can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with download links).

2. <https://www.ChineseStandard.net>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Add to cart. Only accept USD (other currencies - <https://www.ChineseStandard.us>).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with PDFs attached, invoice and download links).

Translated by: Field Test Asia Pte. Ltd. (Incorporated & taxed in Singapore. Tax ID: 201302277C)

About Us (Goodwill, Policies, Fair Trading...): <https://www.chinesestandard.net/AboutUs.aspx>

Contact: Wayne Zheng, Sales@ChineseStandard.net

Linkin: <https://www.linkedin.com/in/waynezhengwenrui/>

----- The End -----