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

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

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Quarantine of the People's Republic of China;
Standardization Administration of the People's Republic of China..**

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W 04 GB

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:

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:

— Add FZ/T 01024 and AATCC TM 15 in Normative References; delete GB/T

— 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

— Modify Chapter 6: Test Specimen; add sampling method of different specimens;

— Delete Method A in the original standard;

use of light fastness, perspiration fastness test container and cotton adjacent fabric; add the contents such as selection principle of perspiration, control method of test specimen moisture ratio, exposure condition, selection of blue wool standard sample and control principle of exposure end point;

This standard was proposed by China National Textile and Apparel Council.

This standard shall be under the jurisdiction of Subcommittee on Basic Standards of the National Technical Committee on Textiles of Standardization Administration of China (SAC/TC 209/SC 1).

Drafting organizations of this standard: National Textile Quality Supervision Testing Center,

National Military Supplies Quality Supervision Testing Center and Beijing Textile Products and Colorant Additive Quality Supervision Testing Station.

Chief drafting staffs of this standard: Li Zhien, Li Chun, Zhang Qiping, Li Shijun, Zhang Hui and Xu Ni.

The previous edition replaced by this standard is as follows:

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 6682 Water for Analytical Laboratory Use - Specification and Test Methods (GB/T 6682-2008, ISO 3696:1987, MOD) FZ/T 01096 Textiles - Tests for Colour Fastness-Colour Fastness to Artificial Light: Carbon Arc AATCC TM 15 Colour Fastness to Perspiration

3 Principle

The test specimen that is treated by artificial perspiration AND the blue wool standard sample are together placed in light fastness tester; and are exposed to sun under specified conditions. When the color fading of blue wool standard sample reaches the end point, take out the test specimen and assess its color change numerical rating with grey scale or meter.

4 Apparatus and Materials

4.1 Balance: accurate to 0.01g.

4.2 pH meter: accurate to 0.01.

4.5 Artificial perspiration: see 5.1, 5.2 and 5.3.

4.6 Water-proof white plate: not containing fluorescent whitening.