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

GB/T 7568.6-2002

**Textiles -- Tests for colour fastness -- Specification for silk
adjacent fabric**

(English Translation)

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Foreword

GB/T 7568 is divided into seven parts:

- Specification for Wool Adjacent Fabric;
- Specification for Cotton and Viscose Adjacent Fabric;
- Specification for Polyamide Adjacent Fabric;
- Specification for Polyester Adjacent Fabric;
- Specification for Acrylic Adjacent Fabric;
- Specification for Silk Adjacent Fabric;
- Specification for Multifiber Adjacent Fabric.

This is the 6th part of GB/T 7568. The modification of this Part adopts ISO 105-F06:

2000 Textiles - Tests for Color Fastness - Part F06: Specification for Silk Adjacent

Fabric (English version).

This Part serves as a replacement of GB 7568-1987 Textiles - Tests for Color Fastness - Specification for Standard Adjacent Fabric: Silk. Due to the development in the world, the previous standard is already technically obsolete.

This Part was re-drafted in accordance with ISO 105-F06: 2000.

In consideration of the national conditions of China, this Part makes certain adjustments while adopting the international standard. Relevant technical differences

have been included in the main body and marked through vertical single lines in the margin of the involved clauses. Appendix A provides a table of these technical differences and their causes, so as to serve as a reference.

In order to make it convenient to be used, this Standard also makes the following editorial modifications:

- a) The phrase "this part of ISO" is modified into "this Part";
- b) Decimal point "." is used to replace comma ",", which acts as decimal point;
- c) The foreword of the international standard is deleted.

In comparison with GB 7568-1987, this Part has the following main changes:

---Mass per unit area is modified into (60 ± 3) g/m²;

Textiles - Tests for Color Fastness -

Specification for Silk Adjacent Fabric

1 Scope

This Part stipulates unstained silk adjacent fabric which is applicable to the assessment of staining in color fastness test. The staining property of silk adjacent fabric to be tested shall be compared and assessed with standard silk adjacent fabric, which shall be conducted through a piece of silk stained reference fabric and a piece of cotton stained reference fabric. All the reference fabrics shall be obtained from stipulated suppliers.

2 Normative References

Through the reference in this Part of GB/T 7568, clauses of the following documents become clauses of this Part. In terms of references with a specific date, all the subsequent modification sheets (excluding the corrected content) or the revised editions are not applicable to this Standard. However, all parties that reach an agreement in accordance with this Part are encouraged to explore the possibility of adopting the latest version of these documents. In terms of references without a specific date, the latest version is applicable to this Part.

GB 250 Gray Scale for Assessing Change in Color (GB 250-1995, idt ISO 105-A02:

1993);

GB/T 4669 Textiles - Woven Fabrics - Determination of Mass Per Unit Length and

Mass Per Unit Area (GB/T 4669-1995, eqv ISO 3801: 1977);

GB/T 5713 Textiles - Tests for Color Fastness - Color Fastness to Water (GB/T 5713-

1997, eqv ISO 105-E01: 1994);

GB/T 7568.2 Textiles - Tests for Color Fastness - Standard Adjacent Fabrics - Part 2:

Cotton and Viscose (eqv ISO 105-F02)1;

GB/T 7571 Wool - Determination of Solubility in Alkali (GB/T 7571-1987, eqv ISO 3072:

1975);

GB/T 7573 Textiles - Determination of pH of the Aqueous Extract (GB/T 7573-2002,

eqv ISO 3071: 1980);

GB/T 8424.1 Textiles - Tests for Color Fastness - General Principles for Measurement

5 Assessment of Staining Properties of Silk Adjacent

Fabric to be Tested

5.1 General Rules

In color fastness test, adjacent fabric is of great importance. Hence, the most important property is standardized staining property. When silk stained reference fabric (3.3) and cotton stained reference fabric (3.4) are used in the test, silk adjacent fabric to be tested shall have the same staining property as the silk reference adjacent fabric.

5.2 Test Methods

Place a piece of silk stained reference fabric (3.3) between a piece of silk adjacent fabric to be tested (3.1) and a piece of silk reference adjacent fabric (3.2). In order to eliminate the differences that might be generated in test conditions, the silk reference adjacent fabric and the silk adjacent fabric to be tested shall be applied to the same composite specimen. Conduct test on the composite specimen in accordance with the stipulations in GB/T 5713.

Use cotton stained reference fabric (3.4) to replace silk stained reference fabric (3.3);

repeat the above-mentioned test.

5.3 Staining Properties

In terms of the two groups of samples which receive the test in accordance with the stipulations in 5.2, use gray scale for assessing change in color to assess the stained silk adjacent fabric to be tested and the stained silk reference adjacent fabric. The color difference between them shall be not greater than Grade 4 - Grade 5.

for 1 h. The processing bath includes (in terms of the mass of fabric):

Non-ionic detergent (ethylene oxide poly-condensate): 6%

Sodium silicate: 2%

Sodium hydrosulfite: 1.2%

Bath ratio: 30:1;

In lukewarm water at 35 °C, scour for three times, dehydrate and dry it.

B.1.3.4 In the end, conduct calendering of the fabric in accordance with the following methods

First calendering: conduct calendering twice on the double calender of light;

Second calendering: conduct calendering once on felt calender.

After the sorting, the fabric shall reach the requirements in 5.3.

B.2 Production of Stained Reference Fabric

B.2.1 Silk stained reference fabric

Place a piece of wetted silk adjacent fabric into 40 °C staining bath; bath ratio shall be 50:1. It shall include C.I. Acid Blue 59 (Color Index, Version 3) and 0.25% anhydrous sodium sulfate, which shall both be counted by the mass of fabric.

Within 15 min, raise the temperature of the staining bath to 90 °C; continue the staining for 30 min. Then, let go of the staining bath; use flowing cold water to rinse the stained matter, till the water manifests absolutely no color. Then, dry the stained matter.

B.2.2 Cotton stained reference fabric

Place a piece of wetted cotton adjacent fabric into 40 °C staining bath; bath ratio shall be 50:1. It shall include C.I. Direct Red 79 (Color Index, Version 3) and 20% anhydrous