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

GB/T 7568.1-2002

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

(English Translation)

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Foreword

GB/T 7568 is divided into 7 parts:

- Specification for wool adjacent fabric;
- Specification for cotton and viscose standard adjacent fabric;
- Specification for polyamide standard adjacent fabric;
- Specification for polyester adjacent fabric;
- Specification for acrylic adjacent fabric;
- Specification for silk adjacent fabric;
- Specification for multi-fiber standard adjacent fabric.

This part is the part 1 of GB/T 7768. It modifies and uses the ISO 105-F01:2001

Textiles - Tests for color fastness - Part F01: Specification for wool adjacent fabric (English version).

This part replaces the GB 7566-1987 Textiles - Tests for color fastness - Specification for wool standard adjacent fabric: Wool, because the original standard is technically obsolete due to international development.

This part was redrafted in accordance with ISO 105-F01:2001. According to international standard and the actual conditions of Chinese national standards, this part had made technical revisions when using the international standards.

The revisions are as follows:

In the "Normative reference" of the international standard, it cites ISO 105-J01.

In this part, it changes it into the reference to the Chinese standard GB/T 8424.2 which is corresponding to ISO 105-J02:1997.

For ease of use, this part has made the following editorial changes:

- a) CHANGE the word "this part of ISO" into this part;
- b) USE a decimal point "." To replace the comma "," which functions as a decimal point;
- c) DELETE the foreword to international standards.

As compared with GB 7564-1987, the main changes in this part are as follows:

- CHANGE the evaluation index of the staining performance of the adjacent fabric into: Change the staining of the cotton-stained reference fabric in the Textiles - Tests for color fastness - Specification for wool adjacent fabric

1 Scope

This part specifies an undyed wool adjacent fabric suitable for use in assessing staining in color fastness tests. The staining characteristics of the wool adjacent fabric to be tested shall be compared with the standard wool adjacent fabric for evaluation, which shall be carried out by two pieces of wool-stained and one piece of cotton-stained reference fabric. All the reference fabrics shall be obtained from the prescribed supply.

2 Normative references

The provisions in following documents become the provisions of this part through reference in this part of GB/T 7568. For the dated references, the subsequent amendments (excluding corrections) or revisions do not apply to this part; however, parties who reach an agreement based on this part are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies. GB 250 Gray scale for assessing change in color (GB 250-1995, idt ISO 105-A02:1993)

GB 251 Gray scale for assessing staining (GB 251-1995, idt ISO 105-A02:1993)

GB/T 3921.2 Textiles - Tests for color fastness - Color fastness to washing: Test 2 (GB/T 3921.2-1997, eqv ISO 105-C02:1989)

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 8424.2 Textiles - Tests for color fastness - Instrumental assessment of relative whiteness (GB/T 8424.2-2001, eqv ISO 105-J-02:1997)

GB/T 7568.2 Textiles - Tests for color fastness - Standard adjacent fabrics - The yellowness of the adjacent fabric $G = 25 \pm 2$, which is calculated according to the formula (1):

Where: G - The yellowness of specimen.

X10, Y10, Z10 - Tristimulus value of specimen.

The pH value of the water extract shall be 7.5 ± 0.5 when measured according to GB/T 7573.

The mass ratio of soluble substance of dichloromethane as measured according to the method as specified in FZ/T 20018 shall be $(0.5 \pm 0.1)\%$.

The mass ratio of alkaline solubility as measured according to the method as specified in GB/T 7571 shall be not more than 18%.

5 Evaluation of staining performance of tested wool

adjacent fabric

5.1 General

The adjacent fabric shall be reproducible in the color fastness test, so the most important performance is to meet the standard staining characteristics. When tested by the use of a cotton-stained and wool-stained reference fabric, the tested wool adjacent fabric shall have the same staining performance as the

wool reference adjacent fabric.

5.2 Test method

Sandwich a piece of wool-stained reference fabric (3.3) between a piece of tested wool adjacent fabric (3.1) and a piece of wool reference adjacent fabric (3.2). In order to eliminate possible differences in test conditions, the wool standard adjacent fabric and the tested wool adjacent fabric shall be applied to the same set of combined specimen. The combined specimen is tested as specified in GB/T 5713.

Use a piece of wool-stained reference fabric (3.4) to replace the cotton-stained reference fabric to repeat the above test.

Use another piece of wool-stained reference fabric (3.5) to replace the cotton-stained reference fabric to form another set of combined specimen, to perform test according to the provisions of GB/T 3921.2.

Appendix A

(Informative)

Preparation of wool adjacent fabric and stained reference fabric

A.1 Preparation of wool adjacent fabric

A.1.1 Canvas work raw materials

The mean fiber diameter of the Australian Merino Wool is between 18.5 μm and

19.7 μm , which is equivalent to 74S in British System after washing by weak base.

The length of specimen taken is 50 mm ~ 70 mm.

A.1.2 Warp and weft yarn

15.6 tex x 2 spinning.

Single yarn twist: 62 twists/10 cm.

Strand yarn twist: 60 twists/10 cm.

Yarn's fat content: $(0.6 \pm 0.2)\%$ (emulsified peanut oil).