

Translated English of Chinese Standard: GB/T3921-2008

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# GB

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**NATIONAL STANDARD**

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

**GB/T 3921-2008**

Replacing GB/T 3921.1~3921.5-1997

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## **Textiles - Tests for Colour Fastness - Colour Fastness to Washing with Soap or Soap and Soda**

(ISO 105-C10: 2006, MOD)

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Republic of China.**

## Table of Contents

Forward.....	3
1 Scope.....	5
2 Normative References.....	5
3 Principle.....	6
4 Apparatus.....	6
5 Reagents and Materials.....	7
6 Test Specimen.....	8
7 Operation Procedures.....	9
8 Test Report.....	10

## Forward

This Standard modifies and adopts ISO 105-C10:2006 "Textiles - Tests for Colour Fastness - Part C10: Colour Fastness to Washing with Soap or Soap and Soda".

Compared with ISO 105-C10:2006, the main differences in this Standard are as follows:

1. The international standards specified in normative references are replaced by corresponding national standards;
2. The flax adjacent fabrics complying with GB/T 13765 are added in Table 1.
3. The rinsing method of composite-specimens after washing in 7.3 is improved.

This Standard shall replace GB/T 3921.1-1997 "Textiles - Tests for Colour Fastness - Colour Fastness to Washing: Test 1", GB/T 3921.2-1997 "Textiles - Tests for Colour Fastness - Colour Fastness to Washing: Test 2", GB/T 3921.3-1997 "Textiles - Tests for Colour Fastness - Colour Fastness to Washing: Test 3", GB/T 3921.4-1997 "Textiles - Tests for Colour Fastness - Colour Fastness to Washing: Test 4" and GB/T 3921.5-1997 "Textiles - Tests for Colour Fastness - Colour Fastness to Washing: Test 5".

Compared with GB/T 3921.1~3921.5-1997, the main changes in this Standard are as follows:

1. Five parts of the original standards are integrated as one standard;
2. The professional standard of the instrumental assessment and international standard of acetate adjacent fabrics are added in normative references;
3. The recommendation on the mechanical stirring device and heating soap solution device is added;
4. The requirements of multi-fibre adjacent fabrics adopted for different test methods are added;
5. The selection method for the second piece of single-fibre adjacent fabrics tested at 60°C and 95°C is modified;
6. The rinsing method of composite specimens after washing is modified;
7. The optional assessment method for the change in colour of the specimen or the staining of adjacent fabric instrumentally is added.

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

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

Chief Drafting Organizations of this Standard: Standardization Institute of Textile Industry, and Beijing Entry-Exit Inspection and Quarantine Bureau.

Chief drafting staffs of this Standard: Si Ying, and Yu Feng.

The historical editions replaced by this Standard are as follows:

- GB 3921-1983, GB/T 3921.1-1997, GB/T 3921.2-1997, GB/T 3921.3-1997, GB/T 3921.4-1997, and GB/T 3921.5-1997.

# Textiles - Tests for Colour Fastness - Colour Fastness to Washing with Soap or Soap and Soda

## 1 Scope

This Standard specifies methods for determining the colour fastness to washing of all kinds of textiles that are commonly used in households, It includes 5 type of tests on different washing procedures - from mild to severe procedure.

This Standard is only used to determine the effect of washing on the colour fastness of the textile. It is not intended to reflect the result of the comprehensive laundering procedure.

## 2 Normative References

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

GB 250 Grey Scale for Assessing Change in Colour (GB 250-1995, ISO 105-A02: 1993, IDT)

GB 251 Gray Scale for Assessing Staining (GB 251-1995, ISO 105-A03: 1993, IDT)

GB/T 6151 Textiles - Tests for Colour Fastness - General Principle of Testing (GB/T 6151-1997, ISO 105-A01: 1994, EQV)

GB/T 6682 Water for Analytical Laboratory Use - Specification and Test Methods (GB/T 6682-1992, ISO 3696: 1987, NEQ)

GB 7565 Textiles - Tests for Colour Fastness - Specification for Standard Adjacent Fabric-Cotton and Viscose (GB/T 7565-1987, ISO 105-F02: 1982, NEQ)

GB/T 7568.1 Textiles - Tests for Colour Fastness - Specification for Wool Adjacent Fabric (GB/T 7568.1-2002, ISO 105-F01: 2001, MOD)

GB/T 7568.4 Textiles - Tests for Colour Fastness - Specification for Polyester

them twice in Grade 3 water (5.4) respectively. Then rinse them clean in running water.

**7.4** For all methods, extract the excess water from the composite-specimen by squeezing the test specimen by hand.

Open out the composite-specimen by cutting the stitching except on one of the shorter sides if necessary.

**7.5** Dry the specimen by pressing it flat between two filter papers to remove excess water. Then dry by hanging it in air at a temperature not exceeding 60 °C; the specimen and adjacent fabric are contacted only at the line of stitching.

**7.6** Assess the change in colour of the specimen and the staining of the adjacent fabric with reference to the original specimen by using either the grey scales or instrument. See GB 250, GB 251, GB/T 8424.3, FZ/T 01023 and FZ/T 01024.

## **8 Test Report**

Test report shall include the following information:

- a) Serial number of this Standard (GB/T 3921-2008);
- b) All details of test specimen;
- c) The number of test methods used, from Table 2;
- d) The numerical rating for the change in colour of the specimen with grey scales or instrumental assessment;
- e) If single-fibre adjacent fabrics were used, the numerical rating for staining of each kind of adjacent fabric used;
- f) If a multifibre adjacent fabric was used, the staining of each type of fibre in the multifibre adjacent fabric, and the type of multifibre adjacent fabric used;
- g) Any deviation details of this Standard and abnormal phenomena in tests.

————— **END** —————

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