

Translated English of Chinese Standard: GB/T5711-2015

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# GB

NATIONAL STANDARD OF THE  
PEOPLE'S REPUBLIC OF CHINA

ICS 59.080.01  
W 04

## GB/T 5711-2015

Replacing GB/T 5711-1997

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### Textiles – Tests for Colour Fastness – Colour Fastness to Drycleaning Using Perchloroethylene Solvent

(ISO 105-D01:2010, MOD)

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**Issued on: September 11, 2015**

**Implemented on: April 1, 2016**

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**Issued by: General Administration of Quality Supervision, Inspection and Quarantine;**

**Standardization Administration of PRC.**

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## Foreword

This Standard was drafted as per the rules specified in GB/T 1.1-2009.

This Standard replaced GB/T 5711-1997 Textiles - Tests for Colour Fastness - Colour Fastness to Dry Cleaning. Compared with GB/T 5711-1997, this Standard mainly has the following changes:

- Modify the standard name, which is confirmed to be “perchloroethylene” drycleaning;
- Add the quotation of relevant adjacent fabric standard to the normative references;
- Modify the principle, add the test after attaching the specimen to the adjacent fabric; change the assessment solvent staining into the adjacent staining;
- Add the Chapter 4;
- Split the Chapter “Equipment and Materials” into Chapter 5 and 6;
- Add 5.2 to the Chapter 5; delete the size of unstained cotton twill in 5.3;
- Add 6.2 and 6.3 to Chapter 6;
- Modify the preparation method of specimen in Chapter 7;
- Increase the drying requirements for the stainless steel containers in 8.3;
- Add the operation requirements for the fume food in 8.5;
- Increase the optional method for apparatus assessing the discoloration and staining in 8.8; delete the results of assessing the solvent staining.

This Standard uses redrafting method to modify ISO 105-D01:2010 *Textiles – Tests for Colour Fastness – Part D01: Colour Fastness to Drycleaning Using Perchloroethylene Solvent* (English Version). This Standard mainly has the following major differences from ISO 105-D01:2010:

- Delete the foreword of the international standard;
- Replace the international standard by corresponding national and industrial standards in the normative references; add GB/T 13765, and delete ISO 105-F07;
- Add Table 1 in Chapter 5;

# **Textiles – Tests for Colour Fastness – Colour Fastness to Drycleaning Using Perchloroethylene Solvent**

## **1 Scope**

**1.1** This Standard specifies the method for determination of textiles colour fastness to drycleaning using perchloroethylene solvent.

**1.2** This Standard is not applicable to assess the durability of textile finishing; neither is it applicable to assess stain-removing operation capability of textile colour to dry-clean shop.

**1.3** This test only contains the test for colour fastness to drycleaning; if the assessment of other drycleaning aspects is required, such as water spots, solvent spots, steam press and iron, and etc., then other test methods shall be provided.

**1.4** For certain textile materials, if the dry cleaning agent contains washing liquid or water, it may change the performance of colour fastness to drycleaning. This test is required to be conducted in case the fabric is in dry state; use the container without any moisture, only use the dry cleaning agent to test.

**1.5** If there is no further instruction, the colour fastness to drycleaning in this Standard indicates that in the perchloroethylene solvent. However, if required, other types of solvent can also be used.

## **2 Normative References**

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this document.

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 251 Textiles - Tests for Colour Fastness - Grey Scale for Assessing Staining (GB/T 251-2008, ISO 105-A03:1993, IDT)

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

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 7568.2 Textiles – Tests for Colour Fastness - Standard Adjacent Fabrics - Part 2: Cotton and Viscose

GB/T 7568.3 Textiles - Tests for Colour Fastness - Standard Adjacent Fabrics - Part 3: Polyamide (GB/T 7568.3-2008, ISO 105-F03:2001, MOD)

GB/T 7568.4 Textiles - Tests for Colour Fastness - Specification for Polyester Adjacent Fabric (GB/T 7568.4-2002, ISO 105-F04:2001, MOD)

GB/T 7568.5 Textiles – Tests for Colour Fastness - Specification for Acrylic Adjacent Fabric (GB/T 7568.5-2002, ISO 105-F05:2001, MOD)

GB/T 7568.6 Textiles - Tests for Colour Fastness - Specification for Silk Adjacent Fabric (GB/T 7568.6-2002, ISO 105-F06, 2000, MOD)

GB/T 7568.7 Textiles - Tests for Colour Fastness - Standard Adjacent Fabrics - Part 7: Multifibre (GB/T 7568.7-2008, ISO 105-F10:1989, MOD)

GB/T 13765 Textiles - Tests for Colour Fastness - Specification for Standard Adjacent Fabric of Linen and Ramie

FZ/T 01023 Instrumental Assessment of the Degree of Staining of Adjacent Fabrics (FZ/T 01023-1993, neq ISO105-A04:1989)

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

### **3 Principle**

Paste the textile specimen to the adjacent fabric, put them together with stainless steel sheet into the perchloroethylene to stir; then extrude, centrifuge, remove liquid and dry the specimen and adjacent fabric. Take the original sample as the reference sample, use gray scale or instrument to assess the change in colour of specimen and the staining of the adjacent fabric.

### **4 Safety Warning**

Perchloroethylene and other solvents are harmful to the human health, so it is very important to operate according to solvent use safety rules. The test is recommended

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