
Textiles — Tests for colour fastness —

Part C08:

**Colour fastness to domestic and
commercial laundering using
a non-phosphate reference detergent
incorporating a low-temperature
bleach activator**

Textiles — Essais de solidité des coloris —

*Partie C08: Solidité des coloris aux lavages domestiques et industriels,
utilisant un détergent de référence sans phosphate comprenant
un activateur de blanchiment à basse température*



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take Part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 105-C08 was prepared by Technical Committee ISO/TC 38, *Textiles*, Subcommittee SC 1, *Tests for coloured textiles and colorants*.

This second edition cancels and replaces the first edition (ISO 105-C08:2001), which has been technically revised. The dates of the references in Clause 2 have been removed, tolerances have been added in Clause 6 and instrumental measurement has been added to applicable clauses. It also incorporates ISO 105-C08:2001/Amd.1:2006 and a modified version of ISO 105-C08:2001/Cor.1:2002.

ISO 105 was previously published in 13 “parts”, each designated by a letter (e.g. “Part A”), with publication dates between 1978 and 1985. Each part contained a series of “sections”, each designated by the respective part letter and by a two-digit serial number (e.g. “Section A01”). These sections are now being republished as separate documents, themselves designated “parts” but retaining their earlier alphanumeric designations. A complete list of these parts is given in ISO 105-A01.

Introduction

The test methods specified in ISO 105-C06 and that specified in this part of ISO 105 are intended to reflect the effect of laundering by domestic or commercial laundering procedures, as distinct from the washing test methods given in ISO 105-C10.

The general principles of testing described in ISO 105-A01 must be understood before using this part of ISO 105.

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Textiles — Tests for colour fastness —

Part C08:

Colour fastness to domestic and commercial laundering using a non-phosphate reference detergent incorporating a low-temperature bleach activator

1 Scope

This part of ISO 105 specifies methods for determining the resistance of the colour of textiles of all kinds and in all forms to domestic or commercial laundering procedures used for normal household articles using a non-phosphate reference detergent incorporating a low-temperature bleach activator.

The colour loss and staining resulting from desorption and/or abrasive action in one single test closely approximates to one domestic or commercial laundering.

This method does not reflect the effect of optical brighteners present in some commercial washing products.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 105-A01:2010, *Textiles — Tests for colour fastness — Part A01: General principles of testing*

ISO 105-A02, *Textiles — Tests for colour fastness — Part A02: Grey scale for assessing change in colour*

ISO 105-A03, *Textiles — Tests for colour fastness — Part A03: Grey scale for assessing staining*

ISO 105-A04, *Textiles — Tests for colour fastness — Part A04: Method for the instrumental assessment of the degree of staining of adjacent fabrics*

ISO 105-A05, *Textiles — Test for colour fastness — Part A05: Instrumental assessment of change in colour for determination of grey scale rating*

ISO 105-F01, *Textiles — Tests for colour fastness — Part F01: Specification for wool adjacent fabric*

ISO 105-F02, *Textiles — Tests for colour fastness — Part F02: Specification for cotton and viscose adjacent fabrics*

ISO 105-F03, *Textiles — Tests for colour fastness — Part F03: Specification for polyamide adjacent fabric*

ISO 105-F04, *Textiles — Tests for colour fastness — Part F04: Specification for polyester adjacent fabric*

ISO 105-F05, *Textiles — Tests for colour fastness — Part F05: Specification for acrylic adjacent fabric*

ISO 105-F06, *Textiles — Tests for colour fastness — Part F06: Specification for silk adjacent fabric*

ISO 105-F07, *Textiles — Tests for colour fastness — Part F07: Specification for secondary acetate adjacent fabric*

ISO 105-F10, *Textiles — Tests for colour fastness — Part F10: Specification for adjacent fabric: Multifibre*

ISO 3696, *Water for analytical laboratory use — Specification and test methods*

3 Principle

A specimen of the textile in contact with specified adjacent fabric or fabrics is laundered, rinsed and dried. Specimens are laundered under appropriate conditions of temperature, alkalinity, bleaching and abrasive action such that the result is obtained in a conveniently short time. The abrasive action is accomplished by the use of an appropriate number of steel balls. The change in colour of the specimen and the staining of the adjacent fabric or fabrics are assessed with reference to the original fabric, either with the grey scales or instrumentally.

4 Reagents and materials

4.1 Reference detergent.

4.1.1 ECE¹⁾ non-phosphate reference detergent base powder (1998 formulation).

4.1.2 Bleach activator, tetra-acetylene diamine (TAED).

4.1.3 Sodium perborate tetrahydrate.

4.2 Non-corrodible (stainless) steel balls, approximately 6 mm in diameter.

4.3 Adjacent fabrics (see ISO 105-A01).

NOTE Supplies of spun acetate might be limited due to decreased manufacturing.

Either

4.3.1 A multifibre adjacent fabric, complying with ISO 105-F10, according to the temperature used:

- a multifibre adjacent fabric (DW) containing wool and acetate (for tests at 40 °C and 50 °C and in certain cases, to be indicated in the test report, at 60 °C);
- a multifibre adjacent fabric (TV) not containing wool and acetate (in certain tests at 60 °C, and in all tests at 95 °C).

In the use of multifibre with wool, it should be taken into consideration that the combination of a temperature of 60 °C and sodium perborate might be harmful to the wool.

Or

4.3.2 Two single-fibre adjacent fabrics, complying with the relevant standards ISO 105-F01 to ISO 105-F07. One of the adjacent fabrics shall be made of the same kind of fibre as that of the textile to be tested, or that predominating in the case of blends, and the second piece shall be made of the fibre indicated in Table 1 or, in the case of blends, of the kind of fibre second in order of predominance, or as otherwise specified.

1) European Colourfastness Establishment (ECE), Gartenstrasse 5, D-14169 Berlin, Germany.