



SLOVENSKI STANDARD

SIST EN ISO 105-C12:2006

01-maj-2006

Tekstilije – Preskušanje barvne obstojnosti – Del C12: Barvna obstojnost proti industrijskemu pranju (ISO 105-C12:2004)

Textiles - Tests for colour fastness - Part C12: Colour fastness to industrial laundering (ISO 105-C12:2004)

Textilien - Farbechtheitsprüfungen - Teil C12: Farbechtheit gegen industrielle Wäsche (ISO 105-C12:2004)

Textiles - Essais de solidité des teintures - Partie C12: Solidité des teintures au lavage industriel (ISO 105-C12:2004)

Ta slovenski standard je istoveten z: EN ISO 105-C12:2006

ICS:

59.080.01 Tekstilije na splošno Textiles in general

SIST EN ISO 105-C12:2006 en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 105-C12

February 2006

ICS 97.060; 59.080.01

English Version

Textiles - Tests for colour fastness - Part C12: Colour fastness to industrial laundering (ISO 105-C12:2004)

Textiles - Essais de solidité des teintures - Partie C12: Solidité des teintures au lavage industriel (ISO 105-C12:2004)

Textilien - Farbechtheitsprüfungen - Teil C12: Farbechtheit gegen industrielle Wäsche (ISO 105-C12:2004)

This European Standard was approved by CEN on 16 January 2006.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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EN ISO 105-C12:2006 (E)**Foreword**

The text of ISO 105-C12:2004 has been prepared by Technical Committee ISO/TC 38 "Textiles" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 105-C12:2006 by Technical Committee CEN/TC 248 "Textiles and textile products", the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by August 2006, and conflicting national standards shall be withdrawn at the latest by August 2006.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Endorsement notice

The text of ISO 105-C12:2004 has been approved by CEN as EN ISO 105-C12:2006 without any modifications.

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INTERNATIONAL
STANDARD

ISO
105-C12

First edition
2004-11-01

**Textiles — Tests for colour fastness —
Part C12:
Colour fastness to industrial laundering**

Textiles — Essais de solidité des teintures —

Partie C12: Solidité des teintures au lavage industriel

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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-C12 was prepared by Technical Committee ISO/TC 38, *Textiles*, Subcommittee SC 1, *Tests for coloured textiles and colorants*.

ISO 105 was previously published in thirteen "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 A02"). These sections are 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.

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ISO 105-C12:2004(E)

Introduction

The test method in this part of ISO 105 is intended to reflect the effect of comprehensive laundering during industrial laundry procedures, as distinct from the domestic washing test methods as given in ISO 105-C05, ISO 105-C06 and ISO 105-C08. Four test conditions are described, one at $(92 \pm 2)^\circ\text{C}$ intended for the evaluation of workwear and three, as given below, at $(75 \pm 2)^\circ\text{C}$, for the evaluation of bed and table linen and corporate wear:

- without the addition of peroxy bleach compounds;
- with the addition of hydrogen peroxide (for the bleaching of white work with coloured trimmings);
- with the addition of sodium perborate tetrahydrate and tetra-acetylene diamine (TAED) (for the bleaching of white work with coloured trimmings).

NOTE The addition of TAED/perborate is a conveniently stable way of producing peracetic acid *in situ*.

This method of test does not reflect the effect of optical brightening agents.

This method and the single cycle test methods described in ISO 105-C06 and ISO 105-C08 may not reproduce the effect of coloured fabrics treated with certain dye fixing agents and finishes after multiple (5 to 10) industrial washes.

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Textiles — Tests for colour fastness —

Part C12: Colour fastness to industrial laundering

1 Scope

This part of ISO 105 specifies methods for determining the resistance of the colour of textiles of all kinds exposed to all forms of industrial laundering procedures.

One cycle approximates to the colour loss and cross staining resulting from chemical and/or mechanical action achieved after multiple (5 to 10) industrial launderings.

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-A01:1994, *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 — Tests for colour fastness — Part A05: Instrumental assessment of change in colour for determination of grey scale rating*

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

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

ISO 105-F10:1989, *Textiles — Tests for colour fastness — Part F10: Specification for reference adjacent fabric: Multifibre*

ISO 139, *Textiles — Standard atmospheres for conditioning and testing*

3 Principle

A specimen of the textile in contact with specified adjacent fabrics is laundered, rinsed and dried. Specimens are laundered under appropriate conditions of temperature, alkalinity, bleaching and mechanical action such that the result is obtained in a conveniently short time. The mechanical action is accomplished by the use of an appropriate number of steel balls. The change in colour of the specimens and the staining of the adjacent fabrics are assessed using the grey scale.