

SLOVENSKI STANDARD SIST EN 20105-C03:1996

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Tekstilije - Preskušanje barvne obstojnosti - Del C03: Barvna obstojnost pri pranju - Preskuš 3

Textiles - Tests for colour fastness - Part C03: Colour fastness to washing - Test 3 (ISO 105-C03:1989)

Textilien - Farbechtheitsprüfung - Teil C03: Bestimmung der Waschechtheit von Färbungen und Drucken - Test 3 (ISO 105-C03:1989) REVIEW

Textiles - Essais de solidité des teintures - Partie C03: Solidité des teintures au lavage - Essai 3 (ISO 105-C03:1989)

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ICS:

59.080.01 Tekstilije na splošno Textiles in general

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EUROPEAN STANDARD

EN 20105-C03:1992

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 1992

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Descriptors:

Textiles, dyeing, dyes, dyeing tests, colour fastness, washing tests, soaps, reference sample

English version

Textiles - Tests for colour fastness - Part C03: Colour fastness to washing - Test 3 (ISO 105-C03:1989)

Textiles - Essai de solidité des teintures DARD PRETextillen - Farbechtheitsprüfung - Teil CO3: Partie CO3: Solidité des teintures au lavage - DARD PRETextillen - Farbechtheitsprüfung - Teil CO3: Partie CO3: Solidité des teintures au lavage - DARD PRETEXTILEN - Farbechtheitsprüfung - Teil CO3: Partie CO3: Solidité des teintures au lavage - DARD PRETEXTILEN - Farbechtheitsprüfung - Teil CO3: Partie CO3: Solidité des teintures au lavage - DARD PRETEXTILEN - Farbechtheitsprüfung - Teil CO3: Partie CO3: Solidité des teintures au lavage - DARD PRETEXTILEN - Farbechtheitsprüfung - Teil CO3: Partie CO3: Solidité des teintures au lavage - DARD PRETEXTILEN - Farbechtheitsprüfung - Teil CO3: Bestimmung der Waschechtheit von Färbungen und Drücken - Test 3 (ISO 105-CO3:1989)

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CEN

European Committee for Standardization Comité Européen de Normalisation Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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Foreword

This European Standard is the endorsement of ISO 105-C03. Endorsement of ISO 105-C03 was recommended by the Technical Committee CEN/TC 248 "Textiles and textile products" under whose competence this European Standard will henceforth fall.

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 May 1993, and conflicting national standards shall be withdrawn at the latest by May 1993.

The Standard was approved and in accordance with the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

Endorsement notice

The text of the International Standard ISO 105-C03:1989 was approved by CEN as a European Standard without any modification. I ANDARD PREVIEW

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INTERNATIONAL STANDARD

ISO 105-C03

> Fourth edition 1989-12-15

Textiles — Tests for colour fastness —

Part C03:

Colour fastness to washing: Test 3

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Textiles Essais de solidité des teintures -

Partie C03 : Solidité des teintures au lavage: Essai 3 <u>SIST EN 20105-C03:1996</u>

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ISO 105-C03:1989(E)

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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75% approval by the VIEW member bodies voting.

International Standard ISO 105-C03 was prepared by Technical Committee ISO/TC 38, Textiles.

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This fourth edition cancels and replaces of the lambird actedition by the lambird acted to the lambird lam

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.

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Textiles — Tests for colour fastness —

Part C03:

Colour fastness to washing: Test 3

Scope

This part of ISO 105 specifies Test No. 3 of a series of five washing tests that have been established to investigate the fastness to washing of coloured textiles and which between them cover the range of washing procedures from mild to severe. A

This method is designed to determine the effect 110 of washing only on the colour fastness of the textile. It is not intended to reflect the result of the comprehensive laundering procedure.

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

Principle

A specimen of the textile in contact with one or two specified adjacent fabrics is mechanically agitated under specified conditions of time and temperature in a soap solution, then rinsed and dried. The change in colour of the specimen and the staining https://standards.iteh.ai/catalog/standardofithe ladjacent8fabric(s) lare assessed with the grey

Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 105. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 105 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 105-A01:1989, Textiles - Tests for colour fastness — Part A01: General principles of testing.

ISO 105-A02:1987, Textiles - Tests for colour fastness — Part A02: Grey scale for assessing change in colour.

ISO 105-A03:1987, Textiles — Tests for colour fastness — Part A03: Grey scale for assessing staining.

ISO 105-F:1985, Textiles — Tests for colour fastness Part F: Standard adjacent fabrics.

Apparatus and reagents

- 4.1 Suitable mechanical device (see clause 8), consisting of a water bath containing a rotatable shaft which supports, radially, glass or stainlesssteel containers 75 mm \pm 5 mm in diameter \times 125 mm \pm 10 mm high of 550 ml \pm 50 ml capacbottom of the containers 45 mm \pm 10 mm from the centre of the shaft. The shaft/container assembly is rotated at a frequency of 40 min⁻¹ \pm 2 min⁻¹. The temperature of the water bath is thermostatically controlled to maintain the test solution at the prescribed temperature of $60~^{\circ}C~\pm~2~^{\circ}C$.
- 4.2 Soap, containing not more than 5 % moisture and complying with the following requirements based upon dry mass:
- free alkali, calculated as Na₂CO₃: 0,3 % maximum;
- free alkali, calculated as NaOH: 0,1 % maximum;
- total fatty matter: 850 g/kg minimum;

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- titre of mixed fatty acids prepared from soap: 30 °C maximum;
- iodine value: 50 maximum.

The soap shall be free from fluorescent brightening agents.

- 4.3 Soap solution, containing 5 g of soap (4.2) and 2 g of anhydrous sodium carbonate per litre of water (4.6).
- 4.4 Adjacent fabrics (see ISO 105-A01:1989, subclause 8.3).

Either:

4.4.1 A multifibre adjacent fabric (TV) not containing wool or acetate, complying with ISO 105-F10, or, where specified, a multifibre adjacent fabric (DW) containing wool and acetate, also complying with ISO 105-F10. If multifibre adjacent fabric (DW) is used, this shall be indicated in the test report.

Or:

4.4.2 Two single-fibre adjacent fabrics, complying with the relevant sections of F01 to F08 of ISO 105-F:1985. SIST EN 20105-C0

same kind of fibre as that of the textile to be tested, or that predominating in the case of blends, and the second piece made of the fibre as indicated in table 1 or, in the case of blends, of the kind of fibre second in order of predominance, or as otherwise specified.

Table 1 — Single-fibre adjacent fabrics

If first piece is:	Second piece to be:
cotton	wool
wool	cotton
silk	cotton
linen	cotton
viscose	wool
acetate	viscose
polyamide	wool or viscose
polyester	wool or cotton
acrylic	wool or cotton

- **4.4.3** If required, a non-dyeable fabric (for example, polypropylene).
- 4.5 Grey scale for assessing change in colour, complying with ISO 105-A02, and grey scale for assessing staining, complying with ISO 105-A03.

4.6 Grade 3 water (see ISO 105-A01:1989, subclause 8.2).

Test specimen

- **5.1** If the textile to be tested is fabric, either
- a) attach a specimen measuring 40 mm imes 100 mm to a piece of the multifibre adjacent fabric, also measuring 40 mm \times 100 mm, by sewing along one of the shorter sides, with the multifibre fabric next to the face of the specimen; or
- b) attach a specimen measuring 40 mm \times 100 mm between the two single-fibre adjacent fabrics, also measuring 40 mm × 100 mm, by sewing along one of the shorter sides.
- 5.2 Where yarn or loose fibre is to be tested, take a mass of the yarn or loose fibre approximately equal to one-half of the combined mass of the adjacent fabrics (see below), and either

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One of the adjacent fabrics shall be made of the internal advantage of st-en-2010each-of the two specified single-fibre fabrics and sew along all four sides.

6 Procedure

- **6.1** Place the composite specimen in the container and add the necessary amount of soap solution (4.3), previously heated to 60 °C \pm 2 °C, to give a liquor ratio of 50:1.
- **6.2** Treat the composite specimen at 60 °C \pm 2 °C for 30 min.
- 6.3 Remove the composite specimen, rinse it twice in cold grade 3 water (4.6) and then in cold, running tap water for 10 min, and squeeze it. Open out the composite specimen (by breaking the stitching except on one of the shorter sides, if necessary) and dry it by hanging it in air at a temperature not exceeding 60 °C, with the two or three parts in contact only at the line of stitching.
- 6.4 Assess the change in colour of the specimen and the staining of the adjacent fabric(s) with the grey scales (4.5).