



**SLOVENSKI STANDARD**  
**SIST EN ISO 105-X04:1999**

**01-marec-1999**

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**Tekstilije - Preskušanje barvne obstojnosti - Del X04: Barvna obstojnost proti merceriziranju (ISO 105-X04:1994)**

Textiles - Tests for colour fastness - Part X04: Colour fastness to mercerizing (ISO 105-X04:1994)

Textilien - Farbechtheitsprüfungen - Teil X04: Farbechtheit gegen Mercerisieren (ISO 105-X04:1994)

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Textiles - Essais de solidité des teintures - Partie X04: Solidité des teintures au mercerisage (ISO 105-X04:1994)

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**Ta slovenski standard je istoveten z: EN ISO 105-X04:1997**

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**ICS:**

59.080.01      Tekstilije na splošno      Textiles in general

**SIST EN ISO 105-X04:1999**      **en**

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EUROPEAN STANDARD

EN ISO 105-X04

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 1997

ICS 59.080.01

Descriptors: see ISO document

English version

**Textiles - Tests for colour fastness - Part X04:  
Colour fastness to mercerizing  
(ISO 105-X04:1994)**

Textiles - Essais de solidité des teintures -  
Partie X04: Solidité des teintures au  
mercerisage (ISO 105-X04:1994)

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This European Standard was approved by CEN on 1997-03-28. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist 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.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

**CEN**

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

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

Page 2

EN ISO 105-X04:1997

## Foreword

The text of the International Standard from Technical Committee ISO/TC 38 "Textiles" of the International Organization for Standardization (ISO) has been taken over as an European Standard 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 October 1997, and conflicting national standards shall be withdrawn at the latest by October 1997.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of 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 and the United Kingdom.

## Endorsement notice

The text of the International Standard ISO 105-X04:1994 has been approved by CEN as a European Standard without any modification.

NOTE: Normative references to International Standards are listed in annex ZA (normative).

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**Annex ZA (normative)**  
**Normative references to international publications**  
**with their relevant European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 105-A01	1994	Textiles - Test for colour fastness - Part A01: General principles of testing	EN ISO 105-A01	1995
ISO 105-A02	1993	Textiles - Test for colour fastness - Part A02: Grey scale for assessing change in colour	EN 20105-A02	1994
ISO 105-A03	1993	Textiles - Test for colour fastness - Part A03: Grey scale for assessing staining	EN 20105-A03	1994

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INTERNATIONAL  
STANDARD

**ISO**  
**105-X04**

Fourth edition  
1994-09-01

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**Textiles — Tests for colour fastness —**

**Part X04:**

Colour fastness to mercerizing

iTeh STANDARD PREVIEW

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*Textiles — Essais de solidité des teintures —*

*Partie X04. Solidité des teintures au mercerisage*

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Reference number  
ISO 105-X04:1994(E)

**ISO 105-X04:1994(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 voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 105-X04 was prepared by Technical Committee ISO/TC 38, *Textiles*, Subcommittee SC 1, *Tests for coloured textiles and colorants*.

This fourth edition cancels and replaces the third edition (ISO 105-X04:1987), of which it constitutes a minor revision.

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 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 X04:

### Colour fastness to mercerizing

#### 1 Scope

This part of ISO 105 specifies a method for determining the resistance of the colour of textiles to the action of concentrated solutions of sodium hydroxide used in mercerizing. The method is mainly applicable to cotton and to mixtures containing cotton.

#### 2 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-A01:1994, *Textiles — Tests for colour fastness — Part A01: General principles of testing.*

ISO 105-A02:1993, *Textiles — Tests for colour fastness — Part A02: Grey scale for assessing change in colour.*

ISO 105-A03:1993, *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.*

#### 3 Principle

**3.1** A specimen of the textile in contact with a specified adjacent fabric is treated with sodium hydroxide solution, rinsed, acidified, rinsed again and dried. The change in colour of the specimen and the staining of the adjacent fabric are assessed by comparison with the grey scales.

**3.2** As completely resistant specimens may show an apparent increase in depth of colour, these cannot be rated 5 (no change) by the normal method of assessment. In such cases, therefore, only the changes in hue and lightness can be assessed using the grey scale, without consideration of the increase in depth, and such assessments should be marked with an asterisk (\*). The meaning of the asterisk should be explained in a footnote.

#### EXAMPLES

5\*: Increase in depth (not considered); no change in hue and lightness.

3-4 redder\*: Increase in depth (not considered); the hue became redder, matching grey scale 3-4.

2 bluer, duller\*: Increase in depth (not considered); the shade changed in hue and lightness, matching grey scale 2.

**3.3** Specimens whose colour does not increase in depth shall be assessed in the normal manner and the results shall not be marked with an asterisk.