



SLOVENSKI STANDARD

SIST EN ISO 105-A05:1999

01-marec-1999

Tekstilije - Preskušanje barvne obstojnosti - Del A05: Instrumentalno ocenjevanje barvnih sprememb vzorca za ugotavljanje njihove vrednosti po sivi skali (ISO 105-A05:1996, vključno s tehničnim popravkom 1:1997)

Textiles - Tests for colour fastness - Part A05: Instrumental assessment of change in colour for determination of grey scale rating (ISO 105-A05:1996, including Technical Corrigendum 1:1997)

Textilien - Farbechtheitsprüfungen - Teil A05: Instrumentelle Bewertung der Änderung der Farbe zur Bestimmung der Graumaßstabszahl (ISO 105-A05:1996, einschließlich Technische Korrektur 1:1997)

[SIST EN ISO 105-A05:1999](https://standards.iteh.ai/catalog/standards/sist/30cdbc04-c8ad-4631-9c4a-105a051999)

Textiles - Essais de solidité des teintures - Partie A05: Evaluation instrumentale de la dégradation pour la détermination du degré de l'échelle de gris (ISO 105-A05:1996, Rectificatif Technique 1:1997 inclus)

Ta slovenski standard je istoveten z: EN ISO 105-A05:1997

ICS:

59.080.01 Tekstilije na splošno Textiles in general

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EUROPEAN STANDARD

EN ISO 105-A05

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 1997

ICS 59.080.01

Descriptors: see ISO document

English version

**Textiles - Tests for colour fastness - Part A05:
Instrumental assessment of change in colour for
determination of grey scale rating
(ISO 105-A05:1996, including Technical
Corrigendum 1:1997)**

Textiles - Essais de solidité des teintures
Partie A05: Evaluation instrumentale de la
dégradation pour la détermination du degré de
l'échelle de gris (ISO 105-A05:1996,
Rectificatif Technique 1:1997 inclus)

Textilien - Farbechtheitsprüfungen - Teil A05:
Instrumentelle Bewertung der Änderung der Farbe
zur Bestimmung der Graumaßstabszahl
(ISO 105-A05:1996, einschließlich Technische
Technische Korrektur 1:1997)

SIST EN ISO 105-A05:1999

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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.

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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

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-A05:1996, including Technical Corrigendum 1:1997 has been approved by CEN as a European Standard without any modification.

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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-J03	1995	Textiles - Test for colour fastness - Part J03: Calculation of colour differences	EN ISO 105-J03	1996

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INTERNATIONAL
STANDARD

ISO
105-A05

First edition
1996-04-01

Textiles — Tests for colour fastness —

Part A05:

Instrumental assessment of change in colour
for determination of grey scale rating

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Textiles — Essais de solidité des teintures —

[https://standards.iteh.ai/catalog/standards/sist/30cbbd04-c8ad-4631-9c4a-](https://standards.iteh.ai/catalog/standards/sist/30cbbd04-c8ad-4631-9c4a-d6b21989/sist-en-iso-105-a05-1999)

*Partie A05: Évaluation instrumentale de la dégradation pour la
détermination du degré de l'échelle de gris*



Reference number
ISO 105-A05:1996(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-A05 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 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 A05:

Instrumental assessment of change in colour for determination of grey scale rating

1 Scope

This part of ISO 105 specifies an instrumental method for assessing the change in colour of a test specimen in comparison to an identical untreated reference, and the calculations undertaken to convert the instrumental measurements into a grey scale rating.

This method is intended as an alternative to the many national methods for visual evaluation of the effect of a colour fastness test on any textile material.

NOTE 1 There may be a difference between instrumental and visual assessments of specimens due to fluorescence, and/or other factors.

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-J03:1995, *Textiles — Tests for colour fastness — Part J03: Calculation of colour differences*.

CIE Publication No. 5.2, *Colorimetry*, 2nd ed., 1986.¹⁾

3 Principle

The colour of the specimen which has been subjected to the colour fastness test and the colour of an identical untreated specimen are measured instrumentally. The CIELAB coordinates for lightness L^* , chroma C_{ab}^* and hue h_{ab} are determined for both specimens, and the CIELAB differences ΔL^* , ΔC_{ab}^* and ΔH_{ab}^* are calculated and converted to a grey scale rating by means of a series of equations.

1) Available from the CIE Central Bureau, Kegelgasse 27, A-1030 Vienna, Austria.