



SLOVENSKI STANDARD

SIST EN ISO 105-B04:1999

01-marec-1999

Tekstilije - Preskušanje barvne obstojnosti - Del B04: Barvna obstojnost proti umetnim vremenskim vplivom: Preskus s pojemajočo ločno ksenonsko svetilko (ISO 105-B04:1994)

Textiles - Tests for colour fastness - Part B04: Colour fastness to artificial weathering: Xenon arc fading lamp test (ISO 105-B04:1994)

Textilien - Farbechtheitsprüfungen - Teil B04: Farbechtheit gegen künstliche Bewetterung: Xenonbogenlicht (ISO 105-B04:1994)

Textiles - Essais de solidité des teintures - Partie B04: Solidité des teintures aux intempéries artificielles: Lampe à arc au xénon (ISO 105-B04:1994)

Ta slovenski standard je istoveten z: EN ISO 105-B04:1997

ICS:

59.080.01 Tekstilije na splošno Textiles in general

SIST EN ISO 105-B04:1999 en

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EUROPEAN STANDARD

EN ISO 105-B04

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 1997

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English version

**Textiles - Tests for colour fastness - Part B04:
Colour fastness to artificial weathering: Xenon arc
fading lamp test (ISO 105-B04:1994)**

Textiles - Essais de solidité des teintures
Partie B04: Solidité des teintures aux
intempéries artificielles: Lampe à arc au xénon
(ISO 105-B04:1994)

Textilien Farbechtheitsprüfungen - Teil B04:
Farbechtheit gegen künstliche Bewetterung:
Xenonbogenlicht (ISO 105-B04:1994)

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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.

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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-B04:1994 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

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INTERNATIONAL
STANDARD

ISO
105-B04

Fourth edition
1994-11-15

Textiles — Tests for colour fastness —

Part B04:

Colour fastness to artificial weathering: Xenon
arc fading lamp test

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Textiles — Essais de solidité des teintures —

*Partie B04. Solidité des teintures aux intempéries artificielles: Lampe à arc
au xénon*



Reference number
ISO 105-B04:1994(E)

ISO 105-B04:1994(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-B04 was prepared by Technical Committee ISO/TC 38, *Textiles*, Subcommittee SC 1, *Tests for coloured textiles and colorants*.

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This fourth edition cancels and replaces the third edition (ISO 105-B04:1988), of which it constitutes a technical 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.

Annexes A and B of this part of ISO 105 are for information only.

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Textiles — Tests for colour fastness —

Part B04:

Colour fastness to artificial weathering: Xenon arc fading lamp test

1 Scope

This part of ISO 105 specifies a method intended for determining the resistance of the colour of textiles of all kinds, except loose fibres, to the action of weather as determined by exposure to simulated weathering conditions in a cabinet equipped with a xenon arc lamp.

This method can be used to determine if a textile is wet light-sensitive.

NOTE 1 General information on colour fastness to light is given in annex A.

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-B01:1994, *Textiles — Tests for colour fastness — Part B01: Colour fastness to light: Daylight*.

ISO 105-B02:1994, *Textiles — Tests for colour fastness — Part B02: Colour fastness to artificial light: Xenon arc fading lamp test*.

3 Principle

Specimens of the textile are exposed under specified conditions to light from a xenon arc lamp and to water spray. At the same time, eight dyed blue wool references are exposed to light but are protected from water spray by a sheet of window-glass. The fastness is assessed by comparing the change in colour of the specimen with that of the references.

If the method is used to determine if a textile is wet light-sensitive (see 4.3.1), the simultaneous exposure of references is unnecessary. In this case the assessment is performed by comparison with the grey scale in accordance with ISO 105-A02.

4 Reference materials and apparatus

4.1 Blue wool references

The reference materials used in this test are those blue wool references specified in ISO 105-A01 and ISO 105-A02, and subclause 4.1.1 of ISO B01:1994.

4.2 Apparatus

4.2.1 Xenon arc lamp apparatus.

4.2.1.1 Light source, in a well-ventilated exposure chamber. The light source is a xenon arc lamp of correlated colour temperature 5 500 K to 6 500 K.