



SLOVENSKI STANDARD
SIST EN 20105-N01:1999

01-marec-1999

Tekstilije - Preskušanje barvne obstojnosti - Barvna obstojnost proti beljenju s hipokloritom

Textiles - Tests for colour fastness - Part N01: Colour fastness to bleaching: Hypochlorite (ISO 105-N01:1993)

Textilien - Farbechtheitsprüfungen - Teil N01: Bleichechtheit von Färbungen: Hypochlorit (ISO 105-N01:1993)

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Textiles - Essais de solidité des teintures au blanchiment: Hypochlorite (ISO 105-N01:1993)

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Ta slovenski standard je istoveten z: EN 20105-N01:1995

ICS:

59.080.01 Tekstilije na splošno Textiles in general

SIST EN 20105-N01:1999 **en**

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EUROPEAN STANDARD

EN 20105-N01

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 1995

ICS 59.080.10

Descriptors: textiles, dyes, tests, determination, colour fastness, bleaching, sodium hypochlorite

English version

**Textiles - Tests for colour fastness - Part N01:
Colour fastness to bleaching: Hypochlorite
(ISO 105-N01:1993)**

Textiles - Essais de solidité des teintures -
Partie N01: Solidité des teintures au
blanchiment: Hypochlorite (ISO 105-N01:1993)

Textilien - Farbechtheitsprüfungen - Teil N01:
Bleichechtheit von Färbungen: Hypochlorit
(ISO 105-N01:1993)

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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

Foreword

This European Standard has been prepared by the 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 July 1995, and conflicting national standards shall be withdrawn at the latest by July 1995.

According to 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-N01:1993 has been approved by CEN as a European Standard without any modification.

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NOTE: Normative references to international publications 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 (including amendments).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 105-A02	1993	Textiles - Tests for colour fastness - Part A02: Grey scale for assessing change in colour	EN 20105-A02	1994
ISO 105-C01	1989	Textiles - Tests for colour fastness - Part C01: Colour fastness to washing - Test 1	EN 20105-C01	1992

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INTERNATIONAL
STANDARD

ISO
105-N01

Second edition
1993-10-01

Textiles — Tests for colour fastness —

Part N01:

Colour fastness to bleaching: Hypochlorite

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Textiles — Essais de solidité des teintures —

Partie N01: Solidité des teintures au blanchiment: Hypochlorite

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Reference number
ISO 105-N01:1993(E)

ISO 105-N01:1993(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-N01 was prepared by Technical Committee ISO/TC 38, *Textiles*, Sub-Committee SC 1, *Tests for coloured textiles and colorants*.

This second edition cancels and replaces the first edition (included in ISO 105-N:1978), 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 N01:

Colour fastness to bleaching: Hypochlorite

1 Scope

This part of ISO 105 specifies a method for determining the resistance of the colour of textiles of all kinds and in all forms to the action of bleaching baths containing sodium or lithium hypochlorite in concentrations normally used in commercial bleaching. It is applicable mainly to natural and regenerated cellulose materials.

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-A01:1989, *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-C01:1989, *Textiles — Tests for colour fastness — Part C01: Colour fastness to washing: Test 1.*

3 Principle

A specimen of the textile is agitated in a solution of sodium or lithium hypochlorite, rinsed in water, agi-

tated in a hydrogen peroxide solution or sodium hydrogen sulfite solution, rinsed and dried. The change in colour is assessed with the grey scale.

4 Apparatus and reagents

4.1 Glass or glazed-porcelain container, which can be closed, for specimen and bleaching solution.

4.2 Hypochlorite solutions.

Use one of the two solutions specified in 4.2.1 and 4.2.2.

4.2.1 Sodium hypochlorite (NaOCl) solution, containing approximately 2 g of available chlorine per litre, buffered at $\text{pH } 11 \pm 0,2$ with 10 g of anhydrous sodium carbonate (Na_2CO_3) per litre, at a temperature of $20 \text{ }^\circ\text{C} \pm 2 \text{ }^\circ\text{C}$.

To prepare this reagent, use commercially available sodium hypochlorite solution. This has the following composition:

- active chlorine: 140 g/l to 160 g/l;
- sodium chloride: (NaCl): 120 g/l to 170 g/l;
- sodium hydroxide: (NaOH): 20 g/l maximum;
- sodium carbonate (Na_2CO_3): 20 g/l maximum;
- iron (Fe): 0,01 g/l maximum.

Dilute 20,0 ml of the commercially available sodium hypochlorite solution to 1 litre with grade 3 water (4.6).