



# SLOVENSKI STANDARD SIST EN ISO 105-Z07:1999

01-marec-1999

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**Tekstilije - Preskušanje barvne obstojnosti - Del Z07: Ugotavljanje uporabne topnosti in stabilnosti raztopin vodotopnih barvil (ISO 105-Z07:1995)**

Textiles - Tests for colour fastness - Part Z07: Determination of application solubility and solution stability of water-soluble dyes (ISO 105-Z07:1995)

Textilien - Farbechtheitsprüfungen - Teil Z07: Bestimmung der Löslichkeit und der Lösungsbeständigkeit von wasserlöslichen Farbstoffen (ISO 105-Z07:1995)

Textiles - Essais de solidité des teintures - Partie Z07: Détermination de la solubilité a l'application et de la stabilité en solution des colorants solubles dans l'eau (ISO 105-Z07:1995)

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**Ta slovenski standard je istoveten z: EN ISO 105-Z07:1997**

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**ICS:**

59.080.01      Tekstilije na splošno      Textiles in general

**SIST EN ISO 105-Z07:1999**      en

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN ISO 105-Z07

September 1997

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English version

Textiles - Tests for colour fastness - Part Z07: Determination of application solubility and solution stability of water-soluble dyes (ISO 105-Z07:1995)

Textiles - Essais de solidité des teintures - Partie Z07: Détermination de la solubilité à l'application et de la stabilité en solution des colorants solubles dans l'eau (ISO 105-Z07:1995)

Textilien - Farbechtheitsprüfungen - Teil Z07: Bestimmung der Löslichkeit und der Lösungsbeständigkeit von wasserlöslichen Farbstoffen (ISO 105-Z07:1995)

This European Standard was approved by CEN on 24 August 1997.

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.

This European Standard exists 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.

SIST EN ISO 105-Z07:1999

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



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 month of March 1998, and conflicting national standards shall be withdrawn at the latest by March 1998.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, 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-Z07:1995 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 3696	1987	Water for analytical laboratory use - Specification and test methods	EN ISO 3696	1995

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INTERNATIONAL  
STANDARD

**ISO**  
**105-Z07**

First edition  
1995-06-15

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**Textiles — Tests for colour fastness —**

**Part Z07:**

Determination of application solubility and  
solution stability of water-soluble dyes

iTeh STANDARD PREVIEW  
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*Textiles — Essais de solidité des teintures —*

*Partie Z07: Détermination de la solubilité à l'application et de la stabilité  
en solution des colorants solubles dans l'eau*



Reference number  
ISO 105-Z07:1995(E)

**ISO 105-Z07:1995(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-Z07 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.

Annex A of this part of ISO 105 is for information only.

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# Textiles — Tests for colour fastness —

## Part Z07:

### Determination of application solubility and solution stability of water-soluble dyes

#### 1 Scope

This part of ISO 105 describes a method for the determination of the application solubility of water-soluble dyes in the range 40 °C to 90 °C and of their solution stability. The method is not intended to measure absolute solubility.

NOTE 1 Several factors which may influence test results are listed 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 1773:1976, *Laboratory glassware — Boiling flasks (narrow-necked)*.

ISO 3696:1987, *Water for analytical laboratory use — Specification and test methods*.

#### 3 Principle

Several solutions of known concentration, including the solubility limit, of the dye to be tested are pre-

pared at a specified temperature. The solutions are then filtered under suction at this temperature in a heatable Nutsch filter and the application solubility limit determined by visual assessment of the filter residues and the measured flow-through time of the filtrate.

The application solubility of dyes is normally determined at 90 °C. For certain classes of dyes the solubility is determined at a lower temperature. In selecting the test temperature, the manufacturer's recommendations are followed. The temperature is indicated in the test report (e.g. application solubility limit determined at 90 °C, 60 °C, etc.).

The solution stability of dyes is determined by storing for 2 h and, as the case requires, cooling the above-mentioned solution before filtration and assessment. The dissolving and storage temperatures are indicated in the test report (e.g. solution stability at 90 °C/60 °C, 60 °C/60 °C, etc.).

#### 4 Apparatus and reagents

**4.1 Erlenmeyer flask**, wide-mouthed, capacity 500 ml, complying with ISO 1773.

**4.2 Heating bath**, thermostatically controlled, with magnetic stirring bar 40 mm long by 6 mm diameter, speed of stirrer 500 r/min to 600 r/min.

**4.3 Water bath**, with temperature regulator (heating/cooling) for adjusting the storage temperature (e.g. 60 °C, 30 °C or 25 °C).