



**SLOVENSKI STANDARD**  
**SIST EN ISO 105-Z05:1999**

**01-marec-1999**

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**Tekstilije - Preskušanje barvne obstojnosti - Del Z05: Ugotavljanje prašenja barvil  
(ISO 105-Z05:1996)**

Textiles - Tests for colour fastness - Part Z05: Determination of the dusting behaviour of dyes (ISO 105-Z05:1996)

Textilien - Farbechtheitsprüfungen - Teil Z05: Bestimmung des Staubverhaltens von Farbstoffen (ISO 105-Z05:1996)

Textiles - Essais de solidité des teintures - Partie Z05: Détermination du comportement des colorants au saupoudrage (ISO 105-Z05:1996)

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**Ta slovenski standard je istoveten z: EN ISO 105-Z05:1998**

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**ICS:**

59.080.01      Tekstilije na splošno      Textiles in general

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN ISO 105-Z05

March 1998

ICS 59.080.01

Descriptors: see ISO document

English version

Textiles - Tests for colour fastness - Part Z05: Determination of  
the dusting behaviour of dyes (ISO 105-Z05:1996)

Textiles - Essais de solidité des teintures - Partie Z05:  
Détermination du comportement des colorants au  
saupoudrage (ISO 105-Z05:1996)

Textilien - Farbechtheitsprüfungen - Teil Z05: Bestimmung  
des Staubverhaltens von Farbstoffen (ISO 105-Z05:1996)

This European Standard was approved by CEN on 14 February 1998.

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.

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.

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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 September 1998, and conflicting national standards shall be withdrawn at the latest by September 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.

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Endorsement notice  
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The text of the International Standard ISO 105-Z05:1996 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).

**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 - Tests for colour fastness - Part A01: General principles of testing	EN ISO 105-A01	1995
ISO 105-A03	1993	Textiles - Tests for colour fastness- Part A03: Grey scale for assessing staining	EN 20105-A03	1994

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INTERNATIONAL  
STANDARD

**ISO**  
**105-Z05**

First edition  
1996-09-01

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**Textiles — Tests for colour fastness —**

**Part Z05:**

Determination of the dusting behaviour of  
dyes

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Textiles — Essais de solidité des teintures —

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Partie Z05: Détermination du comportement des colorants au saupoudrage



Reference number  
ISO 105-Z05:1996(E)

## ISO 105-Z05:1996(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-Z05 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.

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

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## Introduction

The dustiness of dyestuffs is an important feature when considering aspects of hygiene, health and safety in the dyestuff-consuming industry. It is important therefore that a reliable and reproducible method exists to measure this property.

Although other methods for dust measurement exist, the method given in this part of ISO 105 is both more representative of and comparable with actual practice when handling dyestuffs. In respect of a comparison of dyestuffs or the reliability of limits, it should be understood that the resulting value is not a specific value like density.

Details of reproducibility data are given in annex A.

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# Textiles — Tests for colour fastness —

## Part Z05:

### Determination of the dusting behaviour of dyes

#### 1 Scope

This part of ISO 105 specifies a method for determination of the dusting behaviour of dyes.

#### 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-A03:1993, *Textiles — Tests for colour fastness — Part A03: Grey scale for assessing staining*.

#### 3 Definition

For the purposes of this part of ISO 105, the following definition applies.

**3.1 dust:** Particles of solid material dispersed in a gas.

#### NOTES

1 Dyestuff dust is formed during handling operations such as dispensing, transferring, sprinkling, etc.

2 Solid dyes are sold in different physical forms (powdered, granulated, etc.). The particle-size distribution of commercial products varies considerably. The mean particle diameter may be less than 50 µm or as much as several millimetres. The range of the particle-size distribution of a solid dye may also be narrow or wide.

3 The particle-size distribution of dyestuff dust is largely independent of the physical form of the dyestuff. Two typical particle-size distributions for dyestuff dust are shown in figure 1.

#### 4 Principle

Dust is generated from a dye sample by means of a dust-generating device, extracted from the dust-bearing air by vacuum and conveyed to a detection point, where the amount of dust generated is estimated visually or determined quantitatively by a gravimetric or photometric method.

#### 5 Apparatus

**5.1 Balance,** accurate to ± 0,1 g, for weighing out the dye.

**5.2 Dust-generating device,** with filter holder and connecting joints, and incorporating the following additional components (see figures 2 and 3).

#### NOTES

1 Instead of a filter and filter holder, other dust-detection devices may be fitted to the apparatus, such as an impactor or an optical particle counter.

2 For information on sources of supply of the dust-generating device and the filter, apply to the organizations listed in clause 8 of ISO 105-A01:1994.