



NSAI
Standards

Irish Standard
I.S. EN ISO 105-A11:2012

Textiles - Tests for colour fastness - Part
A11: Determination of colour fastness
grades by digital imaging techniques (ISO
105-A11:2012)

I.S. EN ISO 105-A11:2012

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English Version

Textiles - Tests for colour fastness - Part A11: Determination of colour fastness grades by digital imaging techniques (ISO 105-A11:2012)

Textiles - Essais de solidité des coloris - Partie A11:
Détermination des degrés de solidité des coloris par des
techniques d'imagerie numérique (ISO 105-A11:2012)

Textilien - Farbechtheitsprüfungen - Teil A11: Bestimmung
von Farbechtheitszahlen durch digitale
Bildgebungsverfahren (ISO 105-A11:2012)

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Foreword

This document (EN ISO 105-A11:2012) has been prepared by Technical Committee ISO/TC 38 "Textiles" in collaboration with 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of an identical text or by endorsement, at the latest by March 2013, and conflicting national standards shall be withdrawn at the latest by March 2013.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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Endorsement notice

The text of ISO 105-A11:2012 has been approved by CEN as a EN ISO 105-A11:2012 without any modification.

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INTERNATIONAL
STANDARD

ISO
105-A11

First edition
2012-09-15

Textiles — Tests for colour fastness —

Part A11:

**Determination of colour fastness grades
by digital imaging techniques**

Textiles — Essais de solidité des coloris —

*Partie A11: Détermination des degrés de solidité des coloris par des
techniques d'imagerie numérique*



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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

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ISO 105-A11 was prepared by Technical Committee ISO/TC 38, *Textiles*, Subcommittee SC 1, *Tests for coloured textiles and colorants*.

ISO 105 consists of many parts designated by a part letter and a two-digit serial number (e.g. A01), under the general title *Textiles — Tests for colour fastness*. A complete list of these parts is given in ISO 105-A01.

Textiles — Tests for colour fastness —

Part A11: Determination of colour fastness grades by digital imaging techniques

1 Scope

This part of ISO 105 specifies the requirement for a digital imaging system for use in the methods specified in Annexes A and B for the determination of change in colour and staining by digital imaging techniques.

This method is not suitable for assessment of colour fastness to light as described in the ISO 105 B series, as these standards do not use grey scales to assess the specimen.

This part of ISO 105 describes apparatus, equipment settings and calibration for the assessment of

- change in colour, and
- staining.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 105-A01, *Textiles — Tests for colour fastness — Part A01: General principles of testing*

CIE¹⁾ Publication S 012/E, *Standard method of assessing the spectral quality of daylight simulators for appraisal and measurement of colour*

CIE Publication 13.3, 1995, *Method of measuring and specifying the colour rendering properties of light sources*, 2nd edition

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

system grey

colour of the internal surfaces and apparatus that would normally be visible in a captured image

NOTE System grey shall be approximately between Munsell N5 and N7 and within CIELAB Lightness value of 50 or $70 \pm 2,0$ and CIELAB Chroma value not exceeding 2,5 in any hue direction under D65 and CIE 1964 standard colorimetric observer, respectively.

1) Commission Internationale d'Éclairage, Central Bureau, Kegelgasse 27, A-1030, Vienna, Austria.

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