

INTERNATIONAL STANDARD

ISO
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Third edition
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Textiles — Tests for colour fastness — **Part E08:** Colour fastness to hot water

Textiles — Essais de solidité des teintures —
Partie E08: Solidité des teintures à l'eau chaude



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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.

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-E08 was prepared by Technical Committee ISO/TC 38, *Textiles*, Subcommittee SC 1, *Tests for coloured textiles and colorants*.

This third edition cancels and replaces the second edition (ISO 105-E08:1987), 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.

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Textiles — Tests for colour fastness —

Part E08: Colour fastness to hot water

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 hot water. The method is mainly applicable to wool and textiles containing wool.

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

ISO 105-F:1985, *Textiles — Tests for colour fastness — Part F: Standard adjacent fabrics*.

3 Principle

A specimen of the textile in contact with adjacent

fabrics is rolled around a glass rod, treated with slightly acidified hot water and dried. The change in colour of the specimen and the staining of the adjacent fabrics are assessed by comparison with the grey scales.

4 Apparatus and reagent

4.1 Vessel, to hold a cylindrical specimen 40 mm long in hot water, **fitted with reflux condenser** to reduce evaporation.

4.2 Thermostatically controlled bath, to maintain the contents of the vessel (4.1) at $70\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$.

4.3 Glass rod, 5 mm to 8 mm in diameter.

4.4 Wool adjacent fabric, complying with section F01 of ISO 105-F:1985, measuring 40 mm × 100 mm.

4.5 Cotton adjacent fabric complying with section F02 of ISO 105-F:1985, or, in the case of blends, adjacent fabric made from the kind of fibre admixed with the wool, complying with the relevant section F03 to F08 of ISO 105-F:1985, in each case measuring 40 mm × 100 mm.

4.6 Grade 3 water (see ISO 105-A01:1994, sub-clause 8.1), if necessary acidified with acetic acid to $\text{pH } 6 \pm 0,5$.

4.7 Grey scale for assessing change in colour complying with ISO 105-A02 and **grey scale for assessing staining** complying with ISO 105-A03.