

INTERNATIONAL STANDARD

ISO
105-C03

Third edition
1987-12-15



INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
ORGANISATION INTERNATIONALE DE NORMALISATION
МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

Textiles — Tests for colour fastness —

Part C03:

Colour fastness to washing: Test 3

Textiles — Essais de solidité des teintures —

Partie C03: Solidité des teintures au lavage: Essai 3

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Reference number
ISO 105-C03 : 1987 (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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 105-C03 was prepared by Technical Committee ISO/TC 38, *Textiles*.

This third edition cancels and replaces the second edition (included in ISO 105-C: 1982), 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.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

Textiles — Tests for colour fastness —

Part C03:

Colour fastness to washing : Test 3

1 Scope and field of application

This part of ISO 105 specifies Test No. 3 in a series of five washing tests that have been established to investigate the fastness to washing of coloured textiles and which between them cover the range of washing procedures from mild to severe.

NOTE — This method is designed to determine the effect of washing only on the colour fastness of the textile. It is not intended to reflect the result of the comprehensive laundering procedure.

2 References

ISO 105, *Textiles — Tests for colour fastness —*

Part A01: General principles of testing.

Part A02: Grey scale for assessing change in colour.

Part A03: Grey scale for assessing staining.

3 Principle

A specimen of the textile in contact with specified adjacent fabrics is mechanically agitated under specified conditions of time and temperature in a soap solution, then rinsed and dried. The change in colour of the specimen and the staining of the adjacent fabrics are assessed with the grey scales.

4 Apparatus and reagents

4.1 Suitable mechanical device (see clause 8) consisting of a water bath containing a rotatable shaft which supports,

radially, glass or stainless steel containers (75 ± 5 mm diameter \times 125 ± 10 mm high) of 550 ± 50 ml capacity, the bottom of the containers being 45 ± 10 mm from the centre of the shaft. The shaft/container assembly is rotated at a frequency of 40 ± 2 min⁻¹. The temperature of the water bath is thermostatically controlled to maintain the test solution at the prescribed temperature ± 2 °C.

4.2 Soap, containing not more than 5 % moisture and complying with the following requirements based upon dry mass:

- free alkali, calculated as Na₂CO₃ : 3 g/kg maximum
- free alkali, calculated as NaOH : 1 g/kg maximum
- total fatty matter : 850 g/kg minimum
- titre of mixed fatty acids prepared from soap : 30 °C maximum
- iodine value : 50 maximum

The soap shall be entirely free from fluorescent brightening agents.

4.3 Soap solution, containing 5 g of soap (4.2) and 2 g of anhydrous sodium carbonate per litre of distilled water.

4.4 Two adjacent fabrics, each measuring 10 cm \times 4 cm, one piece made of the same kind of fibre as that of the textile to be tested, or that predominating in the case of blends, the second piece made of the fibre as indicated in the following table or, in the case of blends, of the kind of fibre second in order of predominance, or as otherwise specified.