International Standard



105/F

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION MEXACHAPOCHAR OPPAHUSALUR TO CTAHCAPTUSALUMOORGANISATION INTERNATIONALE DE NORMALISATION

Textiles — Tests for colour fastness — Part F: Standard adjacent fabrics

Textiles — Essais de solidité des teintures — Partie F: Tissus témoins

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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.

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/F was prepared by Technical Committee ISO/TC 38, *Textiles*.

Sections F07, F08 and F09 complete this third edition, which cancels and replaces the second edition, ISO 105/F-1982.

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

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Z01 Colour fastness to metals in the dye-bath : Chromium saltsZ02 Colour fastness to metals in the dye-bath : Iron and copper

Textiles — Tests for colour fastness — F01 Specification for standard adjacent fabric : Wool



This specification is intended opstablish an undyed pure wool

adjacent fabric which may be used for the assessment of staining in colour fastness test procedures. The standard wool adjacent fabric exhibits standardized staining properties.

2 Principle

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For testing the standardized staining properties, two water fastness tests and also a wash test carried out at 50 % are conducted on two composite specimens made from a yed master fabric and a cotton adjacent fabric with

- a) the wool fabric under test, and
- b) a sample of the master standard wool adjacent fabric

Staining is then assessed using the grey scale for assessing staining.

3 References

ISO 105 :

Section A01, General principles of testing.

Section A03, Grey scale for assessing staining.

Section C02, Colour fastness to washing : Test 2.

Section E01, Colour fastness to water.

ISO 3072, Wool – Determination of solubility in alkali.

4 Apparatus and reagents

- 4.1 Apparatus and reagent, as specified in section E01.
- 4.2 Apparatus and reagents, as specified in section C02.
- 4.3 Grey scale for assessing staining (see clause 3).
- **4.4** For first dyed master fabric **1,5 % CI Direct Red 16** (Colour Index, 3rd Edition).

For second dyed master fabric — **3 % CI Acid Red 42** (Colour Index, 3rd Edition).

For third dyed master fabric – 2 % CI Acid Red 42 (Colour Index, 3rd Edition).

4.5 Samples of master standard wool adjacent fabric (see 6.3).

5 Characteristics of the fabric

Choose a fabric having technical characteristics as similar as possible to those of the master standard adjacent fabric.

5.1 Composition and construction

The standard wool adjacent fabric is a wool cloth of mass per unit area 125 $^{+5}_{0}$ g/m². It consists of a plain weave cloth with an even and smooth surface made of pure wool fibres. After wetting and tensionless drying, a sample shall remain flat. It shall be free from finishes, residual chemicals, and chemically damaged fibres.

5.2 Staining properties

As adjacent fabrics shall yield exact and reproducible assessments, their most important property is standardized staining characteristics during colour fastness tests. Dyed master tablics are set up, whose staining properties in specified fastness ests are defined. Staining characteristics of the wool adjacent fabrics shall conform to those of the dyed master fabric.

5.2.1 Dyber master fabrics to be subjected to the colour fastness test

a) First dyed master fabric : 1,5 % CI Direct Red 16 (Colour Index, 3rd Edition) dyed on a specified cotton adjacent fabric (see 6.2.1). This dyeing is intended for the water fastness test method [see 5.2.2 a)].

b) Second dyed master/fabric : 3 % CI Acid Red 42 (Colour Index, 3rd Edition) dyed on a specified wool adjacent fabric (see 6.2.2). This dyeing is intended for the water fastness test method [see 5.2.2 a)].

c) Third dyed master fabric : 2 % CI Acid Red 42 (Colour Index, 3rd Edition) dyed on a specified wool adjacent fabric (see 6.2.3). This dyeing is intended for the washing test 2 (50 °C) [see 5.2.2 b)].

5.2.2 Colour fastness test methods employed for assessing the staining properties

The staining properties of the standard wool adjacent fabric are determined by the following test methods :

- a) water fastness test according to section E01;
- b) washing test 2 (50 °C) according to section C02.