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Leather - Tests for colour fastness -

Colour fastness to water

皮革 色牢度试验 耐水色牢度

(ISO 11642:1993, MOD)

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Leather - Tests for colour fastness -

Colour fastness to water

1 Scope

This Standard specifies a method for determining the colour fastness to water of leather.

This Standard applies to all kinds of leather.

2 Normative references

The following documents contain provisions which, through reference in this Standard, constitute provisions of this Standard. For the dated references, their subsequent amendments (excluding corrections) or revisions do not apply to this Standard. However, the parties who enter into agreement based on this Standard are encouraged to investigate whether the latest editions of these documents are applicable. For undated reference documents, the latest editions apply to this Standard.

GB/T 250 Textiles - Tests for colour fastness - Grey scale for assessing change in colour (GB/T 250-2008, ISO 105-A02:1993, IDT)

GB/T 251 Textiles - Tests for colour fastness - Grey scale for assessing staining (GB/T 251-2008, ISO 105-A03:1993, IDT)

GB/T 7568.7 Textiles - Tests for colour fastness - Standard adjacent fabrics - Part 7: Multifibre (GB/T 7568.7-2008, ISO 105-F10:1989, MOD)

QB/T 2707 Leather - Physical and mechanical tests - Sample preparation and conditioning (QB/T 2707-2005, ISO 2419:2002, MOD)

3 Principle

A leather specimen is soaked in distilled water and a piece of adjacent fabric, also soaked in distilled water, laid against each side to be tested. The composite specimen is placed in a suitable apparatus and maintained at a certain temperature and pressure for a certain period of time. The leather specimen and adjacent fabric are then dried, and the change in colour of the specimen and the staining of the adjacent fabric assessed with the grey scales.

6.2 If the leather has no finish, or if it has a finish but is to be tested with the finish intact, simply cut out a test specimen measuring 100 mm×36 mm.

6.3 Cut out one or two pieces of adjacent fabric, also measuring 100 mm×36 mm.

6.4 Immerse the leather specimen and adjacent fabric(s) in distilled water in separate vessels. (If testing more than one specimen simultaneously, several pieces of adjacent fabric may be immersed in the same vessel, but each leather specimen shall be immersed in a separate vessel.) Place the vessels in the vacuum desiccator, produce a vacuum of 5 kPa within 4 min, and hold this vacuum for 2 min. Restore normal pressure. Repeat the procedure a further two times. Lay a piece of adjacent fabric out on a glass plate and cover it with the leather specimen, with the side under test facing down. If both sides are to be tested, cover the leather specimen with a second piece of adjacent fabric. Cover the composite specimen with a second glass plate.

6.5 Preheat the loading weight of 4.5 kg in the oven at $37\text{ }^{\circ}\text{C}\pm 2\text{ }^{\circ}\text{C}$ for at least 1 h. Place the composite specimen, between the two glass plates, in the test apparatus and load it with the 4.5 kg weight. In order to allow excess distilled water to run off, tilt the apparatus about 30° to each side for a few seconds. (When testing several composite specimens simultaneously, take care to ensure that each is placed centrally between two plates in such a way that pressure is exerted evenly on it.) Place the loaded apparatus in the oven and leave at $37\text{ }^{\circ}\text{C}\pm 2\text{ }^{\circ}\text{C}$ for 3 h.

6.6 At the end of the 3 h period, take off the load, remove the composite specimen from the apparatus, stitch it together at one corner, and dry it by hanging it in air under standard conditions as specified in QB/T 2707 ($20\text{ }^{\circ}\text{C}$ and 65% relative humidity), with the specimen and its adjacent fabric(s) in contact only at the point of stitching.

6.7 Assess the staining of each kind of fibre in the adjacent fabric(s), using the appropriate grey scale in accordance with GB/T 251, and also assess the change in colour of the specimen, using the grey scale in accordance with GB/T 250.

7 Test report

The test report shall include the following information:

- a) a reference to this Standard;
- b) a description of the type of leather tested;

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