



Standard Test Method for Resistance of Colored Leather to Bleeding¹

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1. Scope

1.1 This test method covers the determination of the resistance of colored leather to bleeding. This test method does not apply to wet blue.

1.2 This test method is intended for use on finished upper leather for shoes or similar end use, or the leather article such as shoe, handbag, etc.

1.3 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only.

1.4 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ALCA Method:

K 12 Method for Testing Resistance of Colored Leather to Bleeding²

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 *bleeding*—the transfer of color from a finished leather sample onto or into another medium.

4. Significance and Use

4.1 Bleed resistance is considered to be an important characteristic in leather used to make lined and unlined items that may come in contact with water.

5. Apparatus

5.1 Air-Tight Oven.

5.2 *Bleached Cotton Sheeting*,³ 2 in. squares (51.6 by 51.6 mm).

5.3 *Glass Plates*, two 6 in. squares (152.4 by 152.4 mm) and 0.125 in. (3.18 mm) thick.

6. Test Specimen

6.1 The test specimen shall be a 4 in. square (101.6 by 101.6 mm) of finished leather.

7. Procedure

7.1 Place the unfinished side of the leather specimen on the center of one of the glass plates. Thoroughly soak the four squares of cotton sheeting in distilled water for 5 min. Stack them on top of each other on the other glass plate. Invert this plate with the cotton cloths, and place on top of the other plate holding the leather specimen. The cloths should line up approximately in the center of the leather specimen.

7.2 The cloth in immediate contact with the leather is marked Number 1, the next cloth Number 2, the next Number 3 and the top cloth Number 4. Place this entire sandwich in an oven at 120°F (49°C) for 12 h. Remove the glass plates and observe the individual cloths for discoloration.

8. Report

8.1 *Migration of Bleeding*—Observe each of the four cloths for coloration and report migration as 0, 1, 2, 3, or 4. The numbers indicate the cotton cloth that discoloration has reached by migration.

8.2 *Hue*—Note the predominant hue of the colors that bled on each cloth.

8.3 *Intensity*—Observe each cloth Number 1 for this purpose. The degrees of intensity shall be termed none, slight, moderate, or considerable as determined by comparing the test cloth discoloration to the AATCC Grey Scale for Evaluating Staining.⁴ Intensity shall be reported using AATCC Grey Scale numbering.

¹ This test method is under the jurisdiction of ASTM Committee D31 on Leather and is the direct responsibility of Subcommittee D31.06 on Chemical Analysis—General.

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² Developed by and available from the American Leather Chemists Association (ALCA), University of Cincinnati—M.L. 14, Cincinnati, OH 45221-0014.

³ The sole source of supply of the sheeting known to the committee at this time is Testfabrics Inc., 200 Blackford Avenue, P.O. Box 420, Middlesex, NJ 08846-0420. If you are aware of alternative suppliers, please provide this information to ASTM Headquarters. Your comments will receive careful consideration at a meeting of the responsible technical committee,¹ which you may attend.

⁴ Available from American Association of Textile Chemists and Colorists, P.O. Box 12215, Research Triangle Park, NC 27709.