



Standard Test Method for Tackiness of Finish on Leather¹

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This standard has been approved for use by agencies of the U.S. Department of Defense.

1. Scope

1.1 This test method is intended for use on finished leather to evaluate the tendency of cloth to adhere to it. This test method does not apply to wet blue.

1.2 *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 *ASTM Standards:*²

[D1517 Terminology Relating to Leather](#)

[D1610 Practice for Conditioning Leather and Leather Products for Testing](#)

[D2813 Practice for Sampling Leather for Physical and Chemical Tests](#)

3. Terminology

3.1 Definitions of terms used in this test method can be found in Terminology [D1517](#).

3.2 *Definitions of Terms Specific to This Standard:*

3.2.1 *tackiness, adj*—the tendency of cloth to adhere to leather.

4. Summary of Test Method

4.1 Finished leather is brought into contact with a test cloth under a prescribed pressure. The apparatus is heated for a prescribed time, then cooled to room temperature. The cloth subsequently is peeled from the finished leather while observing the force to remove the cloth and deformation of the finished leather surface.

¹ This test method is under the jurisdiction of ASTM Committee [D31](#) on Leather and is the direct responsibility of Subcommittee [D31.07](#) on Physical Properties.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

5. Significance and Use

5.1 This test method is intended for use on any type of finished leather.

5.2 This test will give an indication of the tackiness of the finish on leather.

6. Apparatus

6.1 A circulating oven capable of maintaining $50 \pm 2^\circ\text{C}$ ($122 \pm 3.6^\circ\text{F}$).

6.2 A piece of bleached cheesecloth measuring at least 10 by 10 cm (3.94 by 3.94 in.).

6.3 A suitable device for maintaining a pressure of 100 g/cm^2 (1.42 lb/in.^2) over the entire surface of the cheesecloth.

7. Sampling, Test Specimens, and Test Units

7.1 Sample leather according to Practice [D2813](#).

7.2 The leather sample shall be larger than the cheesecloth.

8. Conditioning

8.1 Prepare the test pieces according to Practice [D1610](#).

8.2 Conditioning, other than as prescribed, shall be documented in the results.

9. Procedure

9.1 The finished leather specimen, the cheesecloth, and the device for maintaining pressure shall be placed in the oven separately and brought to the required temperature.

9.2 Apply the cheesecloth to the surface of the leather. Apply and maintain a pressure of 100 g/cm^2 evenly over the surface of the cheesecloth for 5 min while remaining in the oven.

9.3 Remove the pressure from the cheesecloth, and remove the finished leather and cheesecloth while still in contact with it from the oven.

9.4 Allow the finished leather and cheesecloth to cool under conditions specified by Practice [D1610](#).

9.5 Hold the test specimen vertically and at a distance of $20 \pm 2 \text{ cm}$ ($7.8 \pm 0.8 \text{ in.}$) and an angle of $45 \pm 5^\circ$. Blow for not more than 1 s, and observe if the cheesecloth dislodges from the finished leather.

9.6 Slowly pull or peel the cheesecloth from the finished leather while observing for any tendency of the cloth to adhere to the finished leather.

9.7 Observe the surface of the finished leather for deformation caused by the removal of the cheesecloth and for remnants of cheesecloth fibers after a puff of air is applied as in 9.5.

9.8 Observe the cheesecloth for any leather finish adhering to it.

10. Interpretation of Results

10.1 Rank the tackiness in accordance with Table 1.

11. Report

11.1 Report the following information:

11.1.1 Conditions used in Section 8.

11.1.2 The time pressure was applied, if different from this test method, and

11.1.3 Rank in Table 1 of each test piece in the sample.

TABLE 1 Rank of Tackiness

Rank	Description of Tackiness
1	The cheesecloth fell from or was dislodged completely when blown on.
2	The cheesecloth was dislodged by a light force as evidenced by the cloth loosening in sections rather than along a line.
3	The cheesecloth was dislodged by a greater force as evidenced by a bend developing with a small radius along a line perpendicular to the direction of peeling. The surface of the leather has no trace of cheesecloth fibers remaining after a puff of air is applied.
4	Fibers from the cheesecloth remain adhering to the finished leather or the surface of the leather has been deformed by the peeling action.
5	The cheesecloth tears when being removed or the finish peels off the leather substrate or leather finish adheres to the cheesecloth.

12. Precision and Bias

12.1 No information is presented about either the precision or bias of this test method, since the test result is nonquantitative.

13. Keywords

13.1 leather; tackiness

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