



Designation: D2813-97 Designation: D 2813 – 03 (Reapproved 2008)

Standard Practice for Sampling Leather for Physical and Chemical Tests¹

This standard is issued under the fixed designation D 2813; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

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

1. Scope

1.1 This practice covers the sampling of finished leather and fabricated leather items for physical and chemical tests. The product is grouped into lots that are randomly sampled in such a manner as to produce a representative sample of the lot. This sample may be used to determine compliance of the lot with applicable specification requirements, and on the basis of results, the lot may be accepted or rejected in its entirety.

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

D 1610 Practice for Conditioning Leather and Leather Products for Testing

3. Terminology

3.1 Definitions:

3.1.1 *lot (or batch)*—units of products from a single type, grade, class, size, and composition, manufactured under essentially the same conditions and time.

3.1.2 Leather in formed lots should be produced from:

- (1) Units of product of similar size and type.
- (2) Tanning and finishing material obtained from the same producer (functionally equivalent).
- (3) A single product method.
- (4) Sequential production batches.

3.1.3 *unit*—a piece of leather in the form in which it is purchased, such as a single hide, skin, or any part thereof, or a single fabricated-leather article in the form in which it is purchased, such as a counter, pair of shoes, a gasket, etc.

4. Significance and Use

4.1 The sampling procedures described in this practice have been designed to ensure random sampling of finished leather and fabricated leather items for physical and chemical tests. Leather is a natural product and as such is subject to extensive variability. The physical and chemical properties vary considerably depending on location on the hide, side or skin from which the test sample is taken. Random sampling of specimens from a predefined location and orientation minimizes test bias and variability. This practice defines these parameters.

5. Conditioning

5.1 Physical tests of leather and leather products, unless otherwise specified in the applicable test method, specification, or procurement document, shall be performed under standard atmospheric conditions as described in Practice D 1610, which is $50 \pm 4\%$ relative humidity at a temperature of $23 \pm 1^\circ\text{C}$ ($73.4 \pm 2^\circ\text{F}$).

¹ This practice is under the jurisdiction of ASTM Committee D-34/D31 on Leather, Leather and is the direct responsibility of Subcommittee D31.07 on Physical Properties—General Properties. This practice was developed in cooperation with the American Leather Chemists Assn. (Standard Method J 1 – 1956).

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² Annual Book of ASTM Standards, Vol 15.04.

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.