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Designation: D2875 - 00 (Reapproved 2010) D2875 - 00 (Reapproved 2016)

Standard Test Method for Insoluble Ash of Vegetable-Tanned Leather¹

This standard is issued under the fixed designation D2875; 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.

1. Scope

1.1 This test method covers the determination of the insoluble ash in all types of vegetable-tanned leathers. This test method does not apply to wet blue.

1.2 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.

1.3 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
D2617 Test Method for Total Ash in Leather
D2876 Test Method for Water-Soluble Matter of Vegetable-Tanned Leather

3. Summary of Test Method

3.1 The specimen from which the water-soluble matter has been removed is heated at $600 \pm 25^{\circ}$ C until carbon is removed and constant weight is attained. The weighed residual matter is termed "insoluble ash" and is calculated as <u>a</u> percentage of the original sample.

4. Significance and Use

4.1 This test method gives the amount of ash remaining in the specimen after water extraction to remove water solubles from the leather in accordance with Test Method D2876. The insoluble ash is used in calculating the combined tannin because it is part of the tanned fiber structure that does not leach from the leather during water extraction.

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- 5.1 Crucible, porcelain or platinum, large enough to hold the leather specimen.
- 5.2 *Electric Muffle Furnace*, with temperature controller and pyrometer, capable of maintaining a temperature of $600 \pm 25^{\circ}$ C.

6. Test Specimen

6.1 The specimen shall consist of the 5-g leather sample remaining after water extraction as directed in Test Method D2876. Any deviation from this sample size should be included with the analytical results.

7. Procedure

7.1 Remove the specimen quantitatively from the extraction tube, dry at room temperature, transfer to the crucible, place in a cold muffle furnace, and ash at $600 \pm 25^{\circ}$ C until the crucible and contents have reached constant weight as directed in Test Method D2617. Remove the crucible to a desiccator, cool, and weigh.

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¹ This test method is under the jurisdiction of ASTM Committee D31 on Leather and is the direct responsibility of Subcommittee D31.01 on Vegetable LeatherLeather. This test method was developed in cooperation with the American Leather Chemists Assn.

Current edition approved April 1, 2010 Sept. 1, 2016. Published May 2010 September 2016. Originally approved in 1970. Last previous edition approved in 20052010 as D2875 - 00 (2005).(2010). DOI: 10.1520/D2875-00R16.

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.