



Designation: ~~D6716-06~~ Designation: D 6716 – 08

Standard Test Method for ~~Total Ash in Wet Blue~~ Total Ash in Wet Blue or Wet White¹

This standard is issued under the fixed designation D 6716; 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 total ash in wet blue.~~

~~1.2 Total ash in wet blue may be reported upon a number of different bases (for example, fat-free, moisture-free, as received, excluding chromium, and so forth). Before proceeding with any tests, it is very important to determine upon which basis that the total ash is to be reported and to identify all other test methods that will be required to be executed in order to achieve the determined reporting method.~~

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1.1 This test method covers the determination of total ash in wet blue and wet white.

1.2 For total ash in wet white, the procedure is identical; substitute wet white for wet blue in the standard.

1.3 Total ash in wet blue may be reported upon a number of different bases (for example, fat-free, moisture-free, as received, excluding chromium, and so forth). Before proceeding with any tests, it is very important to determine upon which basis that the total ash is to be reported and to identify all other test methods that will be required to be executed in order to achieve the determined reporting method.

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

1.5 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 3495 Test Method for Hexane Extraction of Leather

D 6658 Test Method for Volatile Matter (Moisture) of Wet Blue by Oven Drying

D 6659 Practice for Sampling and Preparation of Wet Blue for Physical and Chemical Tests

D 6714 Test Method for Chromic Oxide in Ashed Wet Blue (Perchloric Acid Oxidation)

3. Terminology

3.1 *Definitions*:

3.1.1 The terms and definitions employed within this test method are commonly used in normal laboratory practice and require no special comment.

4. Summary of Test Method

4.1 The weighed sample is ignited in air at $600 \pm 25^\circ\text{C}$ until constant mass is attained. The weighed residual matter is termed “ash” and is calculated as a percentage of the original sample.

5. Significance and Use

5.1 This test method is useful in determining the approximate amount of nonvolatile inorganic material in wet blue. This may be in the form of salts or oxides of the elements. In a mixed-chrome tannage, the approximate percentage of other elements in the wet blue may be determined by subtracting the chromic oxide that may be conveniently determined on the ash. (See Test Method D 6714.)

5.2 The specified temperature of 600°C is high enough to produce a reproducible result but it does not completely dehydrate such oxides as aluminum oxide (Al_2O_3) and chromic oxide (Cr_2O_3). Likewise, such salts as sulfates and phosphates may be

¹ This test method is under the jurisdiction of ASTM Committee D31 on Leather and is the direct responsibility of Subcommittee D31.02 on ~~Blue Stock~~ Wet Blue. Current edition approved Oct. Nov. 1, 2006-2008. Published November 2006-December 2008. Originally approved in 2001. Last previous edition approved in 2004-2006 as D 6716 – 04 ϵ .

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.