



Designation: ~~D6659-08~~ Designation: D6659 - 10

# Standard Practice for Sampling and Preparation of Wet Blue for Physical and Chemical Tests<sup>1</sup>

This standard is issued under the fixed designation D6659; 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 ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

## 1. Scope

1.1 This practice covers the sampling and preparation of wet blue 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 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered 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:*<sup>2</sup>

D6658 [Test Method for Volatile Matter \(Moisture\) of Wet Blue by Oven Drying](#)

## 3. Terminology

2.1

3.1 *Definitions:*

2.1.1

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

2.1.1.1

3.1.1.1 *Discussion*—Wet blue in formed lots should be produced from: (1) Units of product of similar size and type. (2) Chromium tanning material obtained from the same producer (or functionally equivalent). (3) A single product method. (4) Sequential production batches.

2.1.2

3.1.2 *unit, n*—a piece of wet blue in the form in which it is purchased, such as a single hide, skin, or any part thereof.

## 3. Significance and Use

3.1 The sampling procedures described in this practice have been designed to ensure random sampling of wet blue for physical and chemical tests. Wet blue 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.

## 4. Conditioning

4.1 Chemical and physical tests of wet blue, unless otherwise specified in the applicable test method, specification, or procurement document, shall be performed under standard atmospheric conditions, which is  $50 \pm 4\%$  relative humidity at a temperature of  $23 \pm 1^\circ\text{C}$  ( $73.4 \pm 2^\circ\text{F}$ ). If testing conditions vary from this standard the actual conditions must be included in the report of all such tests. Significance and Use

<sup>1</sup> This practice is under the jurisdiction of ASTM Committee D31 on Leather and is the direct responsibility of Subcommittee D31.02 on Wet Blue.

Current edition approved Sept/Oct. 1, 2008; 2010. Published October 2008; 2010. Originally approved in 2001. Last previous edition approved in 2007; 2008 as D6659-01(2007); D6659-08. DOI: 10.1520/D6659-108.

<sup>2</sup> For referenced ASTM standards, visit the ASTM website, [www.astm.org](http://www.astm.org), or contact ASTM Customer Service at [service@astm.org](mailto:service@astm.org). For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

4.1 The sampling procedures described in this practice have been designed to ensure random sampling of wet blue for physical and chemical tests. Wet blue 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 Unless otherwise specified in the applicable test method, specification, or procurement document, samples shall be tempered to the ambient laboratory conditions prior to preparation of testing.

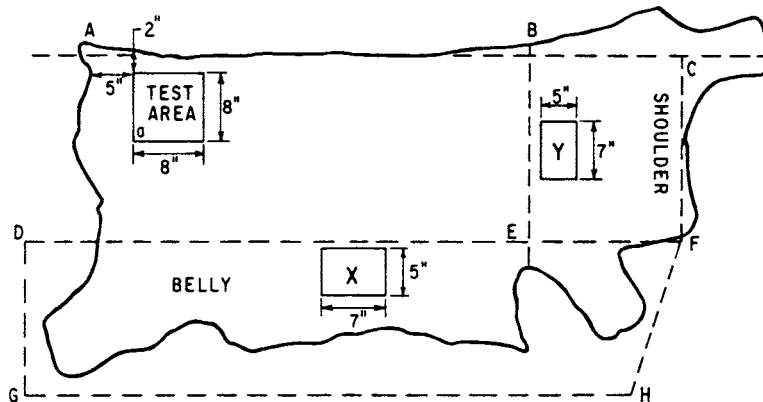
**6. Sampling Procedure**

- 6.1 Prior to sampling, identify the product properly as a lot or batch.
- 6.2 Select units from locations scattered throughout the lot, not from the same portion of the lot, such as a single pallet, carton, layer, etc. Take without regard to quality.
- 6.2.1 The number of samples taken depends on the reliability of the test results, the deviation of the properties, and the error of the testing procedure. The number of samples taken may be at the discretion of the user and the related test method and should also be recorded on the test report. It is recommended that 12 samples be taken for every 50,000 square feet of hide or skin. These 12 shall be considered a lot, or batch.

NOTE 1—By reason of the high moisture content of wet blue, samples should be taken after the wringing operation and immediately sealed in airtight plastic wrap. Store in a cool place until used.

6.3 The standard location for sampling wet blue is the kidney area (designated as TEST AREA “a” in Fig. 1). Sampling in the belly or shoulder area is only applicable if that is the end product being sold or purchased:

- 6.3.1 *Skins*—Cut the test piece to the size and shape required for the tests to be made, with one edge parallel to and 1 in. (25.4 mm) from the backbone line, beginning 3 in. (76 mm) from the root of the tail. Pieces shall be cut from only one side of the backbone of each skin. The test area for skins corresponds to area a for cattlehides of Fig. 1.
- 6.3.2 *Cattlehides*—The location and size of cutting shall be as follows:
  - 6.3.2.1 *Hides, Sides, Crops, Backs, and Bends*—Cut the test piece to the size and shape required for the test to be made, with one edge parallel to and 2 in. (51 mm) from the backbone line beginning 5 in. (127 mm) from the root of the tail. In most instances, test piece “a” may be cut 8 in. (203 mm) by 8 in. (203 mm). Sample double bends, belting butts, and hides on only one side of the backbone (see Fig. 1, test area “a”).
  - 6.3.2.2 *Bellies*—Cut out the test piece, X, 5 in. (127 mm) wide and 7 in. (178 mm) long with one long edge parallel to and 1 in. (25.4 mm) from the belly line, DF, in Fig. 1. Locate the test cutting at the middle of the piece midway between points D and F.



in.	mm	in.	mm
2	51	7	178
5	127	8	203

FIG. 1 Location of Test Area