



Designation: D 6659 – 01

Standard Practice for Sampling and Preparation of Wet Blue for Physical and Chemical Tests¹

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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 *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. Terminology

2.1 Definitions:

2.1.1 *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 *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 *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.

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

5. Sampling Procedure

5.1 Prior to sampling, identify the product properly as a lot or batch.

5.2 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.

5.2.1 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.

5.3 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:

5.3.1 *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.

5.3.2 *Cattlehides*—The location and size of cutting shall be as follows:

5.3.2.1 *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