



Designation: D2462 – 22

Standard Test Method for Moisture in Wool by Distillation With Toluene¹

This standard is issued under the fixed designation D2462; 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 amount of moisture present in grease wool, scoured wool, carded wool, garnetted wool, wool top and intermediate wool products, and rovings, by distillation with toluene.

1.2 Equations are given for calculating the amount of water present as moisture content (as-received basis) and moisture regain (dry fiber) basis. The term that corresponds to the basis used in the calculation and report must always be stated.

1.3 This test method is not applicable to material known to contain any steam-distillable, water-soluble matter. If it is suspected that such matter is present, the method should be used with caution.

1.4 Xylene or other solvents should not be substituted for toluene as no other solvents have been evaluated for use in this standard.

NOTE 1—The determination of moisture in wool by oven-drying is covered in Test Method [D1576](#) and for textile materials in general in Test Methods [D2654](#). A method for sampling wool for the determination of moisture in wool is covered in Practice [D2525](#).

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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.* For specific safety hazard statements, see Section 8.

1.6 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 ASTM Standards:²

- [D123 Terminology Relating to Textiles](#)
- [D1060 Practice for Core Sampling of Raw Wool in Packages for Determination of Percentage of Clean Wool Fiber Present](#)
- [D1576 Test Method for Moisture in Wool by Oven-Drying](#)
- [D1776 Practice for Conditioning and Testing Textiles](#)
- [D2258 Practice for Sampling Yarn for Testing](#)
- [D2525 Practice for Sampling Wool for Moisture](#)
- [D2654 Test Methods for Moisture in Textiles](#)
- [D3333 Practice for Sampling Manufactured Staple Fibers, Sliver, or Tow for Testing](#)
- [D4845 Terminology Relating to Wool](#)
- [E123 Specification for Apparatus for Determination of Water by Distillation](#)

3. Terminology

3.1 For all terminology related to [D13.13](#), Wool and Felt, see Terminology [D4845](#).

3.1.1 The following terms are relevant to this standard: grease wool, moisture content, moisture-free, moisture regain, oven-dried, pulled wool, raw wool, recycled wool, *as defined in the Wool Products Labeling Act as amended in 1980*, scoured wool, virgin wool, wool, wool, *as defined in the Wool Products Labeling Act of 1939*.

3.2 For definitions of all other textile terms see Terminology [D123](#).

4. Summary of Test Method

4.1 A sample or specimen of wool or material made of wool is weighed, then stabilized in the laboratory atmosphere in which the specimen is prepared, and reweighed. Any resulting change in mass is used to calculate the original moisture content of the sample or specimen from the results observed on the stabilized specimen.

¹ This test method is under the jurisdiction of ASTM Committee [D13](#) on Textiles and is the direct responsibility of Subcommittee [D13.13](#) on Wool and Felt.

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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.