



Designation: D584 – 10 (Reapproved 2018)

Standard Test Method for Wool Content of Raw Wool—Laboratory Scale¹

This standard is issued under the fixed designation D584; 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 a laboratory procedure for the determination of the wool base content and the clean wool fiber present in samples of raw wool. This test method is also applicable to other animal fibers such as mohair, cashmere, alpaca, and camel hair.

NOTE 1—Sampling of lots of raw wool in packages is covered in Practice [D1060](#); the determination of vegetable matter and other alkali-insoluble impurities in scoured wool is covered in Test Method [D1113](#); the determination of wool content on a commercial scale is covered in Test Method [D1334](#). For factors for the conversion of woolbase content to its equivalent in terms of scoured wool, top, or noil of various commercially specified compositions (formerly covered in the appendix of this test method), refer to Practice [D2720](#).

NOTE 2—Because of the trade practice the term weight is used in this test method instead of the technically correct term mass.

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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.4 *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](#)

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.

for Determination of Percentage of Clean Wool Fiber Present

[D1113 Test Method for Vegetable Matter and Other Alkali-Insoluble Impurities in Scoured Wool](#)

[D1334 Test Method for Wool Content of Raw Wool—Commercial Scale](#) (Withdrawn 2018)³

[D2525 Practice for Sampling Wool for Moisture](#)

[D2720 Practice for Calculation of Commercial Weight and Yield of Scoured Wool, Top, and Noil for Various Commercial Compositions](#)

[D4845 Terminology Relating to Wool](#)

[E337 Test Method for Measuring Humidity with a Psychrometer \(the Measurement of Wet- and Dry-Bulb Temperatures\)](#)

2.2 *Other Standard:*

[IWTO-19-85 \(E\) Method for the Determination of Wool Base, Vegetable Matter Base; IWTO Clean Wool Content; IWTO Scoured Yield in Raw Wool](#)⁴

3. Terminology

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

3.1.1 The following terms are relevant to this standard: *clean wool fiber present, other alkali-insoluble impurities, oven-dried, raw wool, vegetable matter base, vegetable matter present, wool base, yield.*

3.2 For definitions of other textile terms used in this test method, refer to Terminology [D123](#).

4. Summary of Test Method

4.1 The entire sample, or each test specimen drawn therefrom in a specified manner, is weighed, scoured, dried, and reweighed. The oven-dry scoured wool is tested to determine its content of alcohol-extractable matter, mineral matter (ash), vegetable matter base, and other alkali-insoluble impurities. The wool-base content, laboratory scoured yield, clean wool fiber present, and vegetable matter present are calculated as percentages of the mass of the raw wool sample.

³ The last approved version of this historical standard is referenced on www.astm.org.

⁴ Specifications of Test Methods, International Wool Textile Organization, International Wool Secretariat, Ilkley, West Yorkshire, U.K. LS298PB.