



Standard Practice for Calculation of Commercial Weight and Yield of Scoured Wool, Top, and Noil for Various Commercial Compositions¹

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1. Scope

1.1 This practice includes, in Table 1, the commercial composition corresponding to different commercial designations for scoured wool, wool top, and wool noil, all of which contain, in addition to wool base, various percentages of moisture, material extractable with alcohol, and mineral matter.

1.2 This practice includes directions for the calculation of the commercial weight of wool corresponding to different commercial designations for several forms of wool, and for converting the commercial weight (mass) calculated on one basis to the commercial weight calculated on a different basis.

1.3 This practice also includes directions for calculating the yield, on various commercial designation bases, obtained by processing raw wool, and for converting the yield calculated on one commercial designation basis to the yield on another commercial designation basis.

NOTE 1—Because of trade practice the term “weight” is used in this practice instead of the technically correct term “mass”.

1.4 *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:

D 123 Terminology Relating to Textiles²

D 584 Test Method for Wool Content of Raw Wool—Laboratory Scale²

D 1113 Test Method for Vegetable Matter and Other Alkali-Insoluble Impurities in Scoured Wool²

D 1574 Test Method for Extractable Matter in Wool²

D 1576 Test Method for Moisture in Wool by Oven-Drying²

3. Terminology

3.1 Definitions:

3.1.1 *commercial composition, n*—in wool, the percentages by weight of wool base, moisture, and other nonwool-base

TABLE 1 Commercial Composition of Commercially Designated Scoured Wool, Wool Top, and Wool Noil

	Percentage		
	Wool Base	Moisture	Other Components
ASTM Clean Wool Fiber Present ^A	86.0000	12.0000	2.0000
U.S. Customs Absolute Clean Content ^B	86.0000	12.0000	2.0000
IWTO Clean Wool Content ^C	83.5299	14.5299	1.9402
American Oil Combed Top ^{D,E}	82.4222	13.0435	4.5343
American Oil Combed Noil ^{D,E}	83.4113	12.0000	4.5887
American Dry Combed Top ^{D,E}	84.1454	13.0435	2.8111
American Dry Combed Noil ^{D,E}	85.1552	12.0000	2.8448
Bradford Oil Combed Top ^{D,E}	79.2980	15.9664	4.7356
Bradford Oil Combed Noil ^{D,E}	82.7760	12.2807	4.9433
Bradford Dry Combed Top ^{D,E}	82.6449	15.4334	1.9217
Bradford Dry Combed Noil ^{D,E}	85.7260	12.2807	1.9933
IWTO Noble Oil Combed Top ^C	79.2995	15.9664	4.7341
IWTO Noble Oil Combed Noil ^C	82.7775	12.2807	4.9418
IWTO Noble Dry Combed Top ^C	82.6469	15.4334	1.9197
IWTO Noble Dry Combed Noil ^C	85.7281	12.2807	1.9912
Schlumberger Oil Combed Top ^C	79.2995	15.9664	4.7341
Schlumberger Oil Combed Noil ^C	81.3503	13.7931	4.8566
Schlumberger Dry Combed Top ^C	82.6469	15.4334	1.9197
Schlumberger Dry Combed Noil ^C	84.2500	13.7931	1.9569

^A ASTM Method D 584, Test for Wool Content of Raw Wool, Laboratory Scale.

^B *Tariff Schedules of the United States of America* (1975), Schedule 3, Part 1, Subpart C, Headnote 1(c).

^C *IWTO Core Test Regulations*, 1974, International Wool Textile Organization.

^D *Circular No. 3267*, Nov. 10, 1954, Boston Wool Trade Assn.

^E *Circular No. 4899*, Nov. 2, 1967, Boston Wool Trade Assn.

components in wool to which a specific commercial designation is applied. (Compare *commercial weight*.)

3.1.2 *commercial designation, n*—in wool, a term applied to a lot of wool in a stated form, and having a specified commercial composition.

3.1.3 *commercial weight, n*—billed weight as determined by a generally accepted method or as agreed to by the purchaser and the seller.

3.1.3.1 *Discussion*—For shipments of commercially designated scoured wool, wool top, or wool noil, the generally accepted commercial weight is the weight of wool base contained in the shipment as determined by definite prescribed methods, plus the weights of moisture and other components corresponding to the commercial composition of the commercially designated material. Table 1 lists the common commercial designations for scoured wool, wool top, and wool noil, and their respective commercial compositions.

3.1.4 *oven-dried, adj*—the condition of a material that has been heated under prescribed conditions of temperature and

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² *Annual Book of ASTM Standards*, Vol 07.01.