



Standard Terminology Relating to Textiles¹

This standard is issued under the fixed designation D123; 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.

^{ε1} NOTE—Editorial corrections were made in September 2010.

1. Scope

1.1 This standard is the compilation of all terminology developed by Committee D13 on Textiles.

1.1.1 This terminology, consists mostly of definitions, which are specific to the textile industry. Meanings of the same terms used outside the textile industry can be found in other compilations or in dictionaries of general usage.

1.1.2 The specific D13 subcommittee which has jurisdictional responsibility for every item is the first attribution noted after the definition. The standards in which the terms and definitions appear are listed by number after the jurisdiction for the term. The wording of an entry cannot be changed without the approval of the subcommittee which has jurisdiction and subcommittee D13.92 on Terminology. See 1.2, 1.3, 1.4.

1.2 In addition to being a specialized dictionary, Terminology D123 is also a tool for managing the committee's terminology. This includes finding, eliminating, and preventing redundancies, that is, where two or more terms relating the same concept are defined in different words. Redundancies can also occur when one definition is used for two or more terms.

1.3 While the review for clarity and form are the responsibility of the terminology subcommittee, the concept of managing terminology is the broad responsibility of every writer of standards, specifically the task group leader and subcommittee chairman.

1.4 Subsequent to a listing of specific subcommittee compilations, this standard is comprised of the following sections that are listed in the order in which they appear.

1.4.1 Alphabetical listing of terms and respective definitions.

1.4.2 Ready reference guide.

1.4.3 **Annex A1** Generic names and definitions of manufactured fibers.

1.4.4 **Annex A2** Classification of manufactured and natural fibers.

1.4.5 **Annex A3** Terms relating to the hand of fabrics.

1.4.6 **Annex A4** Terminology revision procedures.

1.4.7 **Annex A5** Industry accepted synonyms.

1.4.8 **Appendix X1** Other sources of textile terminology.

2. Referenced Documents

2.1 *ASTM Standards*:²

D76 Specification for Tensile Testing Machines for Textiles
D122 Tolerances for Tire Fabrics Other Than Tire Cord Fabric³

D204 Test Methods for Sewing Threads

D276 Test Methods for Identification of Fibers in Textiles

D418 Methods of Testing Pile Yarn Floor Covering Construction³

D434 Test Method for Resistance to Slippage of Yarns in Woven Fabrics Using a Standard Seam³

D461 Test Methods for Felt³

D519 Test Method for Length of Fiber in Wool Top

D578 Specification for Glass Fiber Strands

D579 Specification for Greige Woven Glass Fabrics

D541 Specification for Single Jute Yarn³

D580 Specification for Greige Woven Glass Tapes and Webbing

D581 Specification for Glass Fiber Greige Braided Tubular Sleaving

D584 Test Method for Wool Content of Raw Wool—Laboratory Scale

D629 Test Methods for Quantitative Analysis of Textiles

D737 Test Method for Air Permeability of Textile Fabrics

D861 Practice for Use of the Tex System to Designate Linear Density of Fibers, Yarn Intermediates, and Yarns

D885 Test Methods for Tire Cords, Tire Cord Fabrics, and Industrial Filament Yarns Made from Manufactured Organic-Base Fibers

D1059 Test Method for Yarn Number Based on Short-Length Specimens³

D1060 Practice for Core Sampling of Raw Wool in Packages for Determination of Percentage of Clean Wool Fiber Present

¹ This terminology is under the jurisdiction of ASTM Committee D13 on Textiles and is the direct responsibility of Subcommittee D13.92 on Terminology.

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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.

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

- D1113 Test Method for Vegetable Matter and Other Alkali-Insoluble Impurities in Scoured Wool
- D1117 Guide for Evaluating Nonwoven Fabrics³
- D1224 Test Methods for Zinc and Cadmium in Paper³
- D1230 Test Method for Flammability of Apparel Textiles³
- D1233 Specification for Twine Made for Bast and Leaf Fiber³
- D1234 Test Method of Sampling and Testing Staple Length of Grease Wool
- D1244 Practice for Designation of Yarn Construction
- D1282 Test Method for Resistance to Airflow as an Indication of Average Fiber Diameter of Wool Top, Card Sliver, and Scoured Wool
- D1283 Test Method for Alkali-Solubility of Wools
- D1294 Test Method for Tensile Strength and Breaking Tenacity of Wool Fiber Bundles 1-in. (25.4-mm) Gage Length
- D1319 Test Method for Hydrocarbon Types in Liquid Petroleum Products by Fluorescent Indicator Adsorption
- D1334 Test Method for Wool Content of Raw Wool—Commercial Scale
- D1335 Test Method for Tuft Bind of Pile Yarn Floor Coverings
- D1336 Test Method for Distortion of Yarn in Woven Fabrics
- D1388 Test Method for Stiffness of Fabrics
- D1418 Practice for Rubber and Rubber Latices—Nomenclature
- D1422 Test Method for Twist in Single Spun Yarns by the Untwist-Retwist Method
- D1423 Test Method for Twist in Yarns by Direct-Counting
- D1424 Test Method for Tearing Strength of Fabrics by Falling-Pendulum (Elmendorf-Type) Apparatus
- D1425 Test Method for Unevenness of Textile Strands Using Capacitance Testing Equipment
- D1440 Test Method for Length and Length Distribution of Cotton Fibers (Array Method)
- D1441 Practice for Sampling Cotton Fibers for Testing
- D1442 Test Method for Maturity of Cotton Fibers (Sodium Hydroxide Swelling and Polarized Light Procedures)
- D1445 Test Method for Breaking Strength and Elongation of Cotton Fibers (Flat Bundle Method)
- D1447 Test Method for Length and Length Uniformity of Cotton Fibers by Photoelectric Measurement
- D1448 Test Method for Micronaire Reading of Cotton Fibers
- D1464 Test Method for Differential Dyeing Behavior of Cotton
- D1518 Test Method for Thermal Transmittance of Textile Materials
- D1574 Test Method for Extractable Matter in Wool and Other Animal Fibers
- D1575 Test Method for Fiber Length of Wool in Scoured Wool and in Card Sliver
- D1576 Test Method for Moisture in Wool by Oven-Drying
- D1577 Test Methods for Linear Density of Textile Fibers
- D1578 Test Method for Breaking Strength of Yarn in Skein Form
- D1682 Methods of Test for Breaking Load and Elongation of Textile Fabrics³
- D1683 Test Method for Failure in Sewn Seams of Woven Apparel Fabrics
- D1684 Practice for Lighting Cotton Classing Rooms for Color Grading
- D1769 Method of Test for Linear Density of Cotton Fibers (Array Sample)³
- D1770 Test Method for Neps, Vegetable Matter, and Colored Fiber in Wool Top
- D1774 Test Methods for Breaking Load and Elongation of Textile Fabrics³
- D1775 Test Method for Tension and Elongation of Wide Elastic Fabric³
- D1776 Practice for Conditioning and Testing Textiles
- D1777 Test Method for Thickness of Textile Materials
- D1871 Test Method for Adhesion Between Tire Bead Wire and Rubber
- D1877 Method of Test for Permanence of Adhesive-Bonded Joints in Plywood Under Mold Conditions³
- D1907 Test Method for Linear Density of Yarn (Yarn Number) by the Skein Method
- D1908 Test Method for Needle Related Damage Due to Sewing in Woven Fabrics³
- D1909 Standard Table of Commercial Moisture Regains for Textile Fibers
- D2050 Terminology Relating to Subassemblies
- D2101 Test Method for Tensile Properties of Single Man-Made Textile Fibers Taken From Yarns and Tows
- D2102 Test Method for Shrinkage of Textile Fibers (Bundle Test)
- D2118 Practice for Assigning a Standard Commercial Moisture Content for Wool and its' Products
- D2130 Test Method for Diameter of Wool and Other Animal Fibers by Microprojection
- D2165 Test Method for pH of Aqueous Extracts of Wool and Similar Animal Fibers
- D2229 Test Method for Adhesion Between Steel Tire Cords and Rubber
- D2252 Specification for Fineness of Types of Alpaca
- D2253 Test Method for Color of Raw Cotton Using the Nickerson-Hunter Cotton Colorimeter³
- D2255 Test Method for Grading Spun Yarns for Appearance
- D2256 Test Method for Tensile Properties of Yarns by the Single-Strand Method
- D2257 Test Method for Extractable Matter in Textiles
- D2258 Practice for Sampling Yarn for Testing
- D2259 Test Method for Shrinkage of Yarns
- D2260 Tables of Conversion Factors and Equivalent Yarn Numbers Measured in Various Numbering Systems
- D2261 Test Method for Tearing Strength of Fabrics by the Tongue (Single Rip) Procedure (Constant-Rate-of-Extension Tensile Testing Machine)
- D2262 Test Method for Tearing Strength of Woven Fabrics by the Tongue (Single Rip) Method (Constant-Rate-of-Traverse Tensile Testing Machine)³
- D2401 Methods of Test for Service Change of Appearance of Pile Floor Coverings³

- D2402 Test Method for Water Retention of Textile Fibers (Centrifuge Procedure)
- D2462 Test Method for Moisture in Wool by Distillation With Toluene
- D2475 Specification for Felt
- D2480 Test Method for Maturity Index and Linear Density of Cotton Fiber by the Causticaire Method³
- D2494 Test Method for Commercial Mass of a Shipment of Yarn or Manufactured Staple Fiber or Tow
- D2495 Test Method for Moisture in Cotton by Oven-Drying
- D2496 Test Method for Seed Coat Fragments and Funiculi in Cotton Fiber Samples³
- D2497 Tolerances for Manufactured Organic-Base Filament Single Yarns
- D2524 Test Method for Breaking Tenacity of Wool Fibers, Flat Bundle Method— 18-in. (3.2-mm) Gage Length
- D2525 Practice for Sampling Wool for Moisture
- D2594 Test Method for Stretch Properties of Knitted Fabrics Having Low Power
- D2612 Test Method for Fiber Cohesion in Sliver and Top (Static Tests)
- D2644 Tolerances for Yarns Spun on the Woolen System
- D2645 Tolerances for Yarns Spun on the Cotton or Worsted Systems
- D2646 Test Methods for Backing Fabric Characteristics of Pile Yarn Floor Coverings
- D2654 Test Method for Moisture in Textiles³
- D2692 Test Method for Air Wicking of Tire Fabrics, Tire Cord Fabrics, Tire Cord, and Yarns
- D2720 Practice for Calculation of Commercial Weight and Yield of Scoured Wool, Top, and Noil for Various Commercial Compositions
- D2724 Test Methods for Bonded, Fused, and Laminated Apparel Fabrics
- D2812 Test Method for Non-Lint Content of Cotton
- D2816 Test Method for Cashmere Coarse-Hair Content in Cashmere
- D2817 Specification for Maximum Cashmere Coarse-Hair Content in Cashmere
- D2859 Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials
- D2905 Practice for Statements on Number of Specimens for Textiles³
- D2906 Practice for Statements on Precision and Bias for Textiles³
- D2910 Method for Removal of Organic Matter from Water by Activated Carbon Absorption³
- D2968 Test Method for Med and Kemp Fibers in Wool and Other Animal Fibers by Microprojection
- D2969 Test Methods for Steel Tire Cords
- D2970/D2970M Test Methods for Testing Tire Cords, Tire Cord Fabrics, and Industrial Yarns Made From Glass Filaments
- D2974 Test Methods for Moisture, Ash, and Organic Matter of Peat and Other Organic Soils
- D3025 Practice for Standardizing Cotton Fiber Test Results by Use of Calibration Cotton Standards
- D3107 Test Methods for Stretch Properties of Fabrics Woven from Stretch Yarns
- D3108 Test Method for Coefficient of Friction, Yarn to Solid Material
- D3135 Specification for Performance of Bonded, Fused, and Laminated Apparel Fabrics
- D3136 Terminology Relating to Care Labeling for Apparel, Textile, Home Furnishing, and Leather Products
- D3181 Guide for Conducting Wear Tests on Textiles
- D3217 Test Methods for Breaking Tenacity of Manufactured Textile Fibers in Loop or Knot Configurations
- D3218 Specification for Polyolefin Monofilaments
- D3219 Specification for Industrial Filament Yarns, Tire Cords, and Tire Cord Fabrics Made from Man-Made Organic Fibers³
- D3333 Practice for Sampling Manufactured Staple Fibers, Sliver, or Tow for Testing
- D3334 Method of Testing Fabrics Woven from Polyolefin Monofilaments³
- D3374 Specification for Vinyl-Coated Glass Yarns
- D3412 Test Method for Coefficient of Friction, Yarn to Yarn
- D3477 Performance Specification for Men's and Boys' Woven Dress Shirt Fabrics³
- D3511 Test Method for Pilling Resistance and Other Related Surface Changes of Textile Fabrics: Brush Pilling Tester
- D3512 Test Method for Pilling Resistance and Other Related Surface Changes of Textile Fabrics: Random Tumble Pilling Tester
- D3513 Test Method for Overlength Fiber Content of Manufactured Staple Fiber
- D3514 Test Method for Pilling Resistance and Other Related Surface Changes of Textile Fabrics: Elastomeric Pad
- D3562 Performance Specification for Woven Drycleanable Coat Fabrics
- D3597 Performance Specification for Woven Upholstery Fabrics—Plain, Tufted, or Flocked
- D3655 Performance Specification for Men's and Women's Sliver Knitted Overcoat and Jacket Fabrics
- D3656 Specification for Insect Screening and Louver Cloth Woven from Vinyl-Coated Glass Yarns
- D3659 Test Method for Flammability of Apparel Fabrics by Semi-Restraint Method³
- D3690 Performance Specification for Vinyl-Coated and Urethane-Coated Upholstery Fabrics—Indoor
- D3691 Performance Specification for Woven, Lace, and Knit Household Curtain and Drapery Fabrics
- D3692 Practice for Selection of Zippers for Care-Labeled Apparel and Household Furnishings
- D3693 Specification for Labeled Length per Holder of Sewing Thread
- D3773 Test Methods for Length of Woven Fabric
- D3774 Test Method for Width of Textile Fabric
- D3775 Test Method for Warp (End) and Filling (Pick) Count of Woven Fabrics
- D3776 Test Methods for Mass Per Unit Area (Weight) of Fabric
- D3777 Practice for Writing Specifications for Textiles³