



Designation: D123 – 23

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.

This standard has been approved for use by agencies of the U.S. Department of Defense.

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 (SC) which has jurisdictional responsibility for every item is the first attribution noted after the definition. The SC terminology standard in which all the terms and definitions appear is 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. Users of this compilation should also review the SC terminology standard listed for more details or interpretations of these terms and their use by the SC having jurisdiction.

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 with definitions followed by SC attribution in brackets and SC terminology standard.

1.4.2 Annex A1 Terms Relating to the Hand of Fabrics.

1.4.3 Annex A2 Industry Accepted Synonyms.

1.4.4 Annex A3 Terminology Taken From D13 Standards That Have Been Withdrawn.

1.4.5 Annex A4 Terminology Relating to Leather.

1.4.6 Annex A5 Terminology Revision Procedures.

1.4.7 Appendix X1 Other Sources of Textile Terminology.

1.5 *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

[D2050 Terminology Relating to Fastener Subassemblies Used in the Manufacture of Textiles](#)

[D3136 Terminology Relating to Care Labeling for Apparel, Textile, Home Furnishing, and Leather Products \(Withdrawn 2023\)](#)³

[D3888 Terminology for Yarn Spinning Systems](#)

[D3990 Terminology Relating to Fabric Defects](#)

[D4391 Terminology Relating to The Burning Behavior of Textiles](#)

[D4845 Terminology Relating to Wool](#)

[D4848 Terminology Related to Force, Deformation and Related Properties of Textiles](#)

[D4849 Terminology Related to Yarns and Fibers](#)

[D4850 Terminology Relating to Fabrics and Fabric Test Methods](#)

[D4920 Terminology Relating to Conditioning, Chemical, and Thermal Properties \(Withdrawn 2022\)](#)³

[D5219 Terminology Relating to Body Dimensions for Apparel Sizing](#)

[D5253 Terminology Relating to Floor Coverings and Textile Upholstered Furniture](#)

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

Current edition approved May 1, 2023. Published September 2023. Originally approved in 1921. Last previous edition approved in 2019 as D123 – 19. DOI: 10.1520/D0123-23.

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

D5646 Terminology Relating to Seams and Stitches Used in Home Sewing
 D5684 Terminology Relating to Pile Floor Coverings
 D6477 Terminology Relating to Tire Cord, Bead Wire, Hose Reinforcing Wire, and Fabrics
 D6798 Terminology Relating to Flax and Linen
 D6799 Terminology Relating to Inflatable Restraints
 D6963 Terminology Relating to Sewn Products Automation (Withdrawn 2022)³
 D7018 Terminology Relating to Glass Fiber and Its Products
 D7022 Terminology Relating to Apparel (Withdrawn 2022)³
 D7023 Terminology Relating to Home Furnishings
 D7139 Terminology for Cotton Fibers
 D7641 Guide for Textile Fibers
 D7722 Terminology Relating to Assembly of Textile Structures

3. Terminology

3.1 Alphabetical listing of terms with subcommittee jurisdiction and attribution for each term.

A-tuft, *n*—a single-pass process for aligning hook free fibers on the Fibroliner FL-101. [D13.11] D7139

abrasion, *n*—the wearing away of any part of a material by rubbing against another surface. [D13.59] D4850

abrasion, *n*—for *inflatable restraint fabrics*, a fuzzy cluster of broken filaments damaged by scraping. [D13.20] D6799

abrasion cycle, *n*—one complete movement across the surface of a material. [D13.59] D4850

abrasion cycle, *n*—for the *Martindale Abrasion Tester*, 16 rubs required to complete a geometric shape, known as a Lissajous. [D13.59] D4850

abrasion cycle, *n*—in *abrasion testing*, one or more movements of the abradant across a material surface, or the material surface across the abradant, that permits a return to its starting position. [D13.59] D4850

abrasion mark, *n*—an area damaged by friction. [D13.59] D3990

absolute humidity, *n*—the mass of water vapor present in a unit volume of air. (See **humidity** and **relative humidity**) [D13.51] D4920

absorbent compound, *n*—in *textile cleaning*, sponge-like particles which, when saturated with water or dry solvent and detergent and brushed into the textile, remove soil from the textile. See **powder cleaner**. [D13.62] D5253

absorbent pad, *n*—for *cleaning textile floor coverings*, a damp textile material (fabric, felt, sponge, or mop) used to agitate and wipe the pile and, in the process, absorb soil. [D13.62] D5253

absorption, *n*—a process in which one material (the absorbent) takes in or absorbs another (the absorbate); as the absorption of moisture by fibers. (See also **adsorption**, and **moisture equilibrium for testing**. Compare **desorption** and **resorption**.) [D13.51] D4920

accelerated aging, *n*—in *textile processing and testing*, the use of controlled environmental conditions to promote rapid physical or chemical change in a textile material. [D13.20] D6799

accuracy, *n*—of a *test method*, the degree of agreement between the true value of the property being tested (or accepted standard value) and the average of many observations made according to the test method, preferably by many observers. [D13.59] D4850

acid content, *n*—of *felt*, the number of milliequivalents of acid present per unit weight of felt, measured under prescribed conditions. [D13.13] D4845

acromion, *n*—in *anatomy*, that part of the shoulder blade located at the end of the spine which articulates with the collar bone. (See also **shoulder joint**.) [D13.55] D5219

across back shoulder width, *n*—the horizontal distance across the back from the top of one shoulder joint to the top of the other shoulder joint, taken with the arms down. [D13.55] D5219

across front shoulder width, *n*—the horizontal distance across the front from the top of one shoulder joint to the top of the other shoulder joint, taken with the arms down. [D13.55] D5219

across shoulder, *n*—in *body measurements*, the distance from shoulder joint to shoulder joint across the back. [D13.55] D5219

acrylic fiber—See **acrylic** in D7641.

adhesion, *n*—the property denoting the ability of a material to resist delamination or separation into two or more layers. [D13.19] D6477

adhesion, *n*—in *tire fabrics*, the force required to separate a textile material from rubber or other elastomer by a definite prescribed method. [D13.19] D6477

adhesive treated-tire cord, *n*—a tire cord whose adhesion to rubber or other elastomer has been improved by the application of a dip followed by rapid drying and (normally) additional heat treatment. [D13.19] D6477

adsorption, *n*—a process in which the surface of a solid takes on or absorbs in an extremely thin layer molecules of gases, of dissolved substances, or of liquids with which it is in contact. (See also **absorption**, **moisture equilibrium of testing**. Compare **desorption** and **resorption**.) [D13.51] D4920

afterflame, *n*—persistent flaming of a material after the ignition source has been removed. [D13.92] D4391

after-flame time, *n*—the length of time for which a material continues to flame after the ignition source has been removed. [D13.92] D4391

afterglow, *n*—glow in a material after the removal of an external ignition source or after the cessation (natural or induced) of flaming of the material. (See also **flame**, **glow**, and **smoldering**.) [D13.92] D4391