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Standard Terminology Relating to Flax and Linen¹

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^{ε1} NOTE—The term “average fiber width” was added editorially in September 2014.

^{ε2} NOTE—The terms “dew retting,” “enzyme retting,” and “water retting” were added editorially in September 2015.

1. Scope

1.1 This terminology covers definitions of technical terms related to flax and linen.

2. Referenced Documents

2.1 *ASTM Standards*:²

[D123 Terminology Relating to Textiles](#)

[D7879 Test Method for Determining Flax Fiber Widths Using Image Analysis](#)

3. Terminology

3.1 *Definitions*:

average fiber width (μm), n —the arithmetic mean width of a selected group of fibers in a two-dimensional image plane.

¹ This terminology is under the jurisdiction of ASTM Committee D13 on Textiles and is the direct responsibility of Subcommittee D13.17 on Flax and Linen. Current edition approved July 1, 2013. Published September 2013. Originally approved in 2002. Last previous edition approved in 2007 as D6798 – 02(2007); (2007)^{ε1}. DOI: [10.1520/D6798-02R13E01](https://doi.org/10.1520/D6798-02R13E01); [10.1520/D6798-02R13E02](https://doi.org/10.1520/D6798-02R13E02).

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.

DISCUSSION—

The selected group of fibers is dependent upon the capturing device and software parameters as set by the operator.

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bast fibers, n —*in flax stems*, fibers found in the layer of phloem of the flax stem between the inner xylem tissue and the epidermis tissue.

breaking, $v=n$ —*in flax stems*, the crushing of the structure of the stem; loosening the bond between the fiber bundles and shives and breaking the shives into short pieces to facilitate its removal.

combing, $v=n$ —*in flax*, the processing of tow so as to produce tops or silver which have the staple length and width suitable for use in the worsted spinning system.

cottonizing, $v=n$ —*in flax*, the processing of flax fiber so as to make it suitable for use in the cotton spinning system.

decorticating, $v=n$ —*in flax*, the process of mechanically separating fiber bundles from straw.

de-seeding, $v=n$ —*in flax*, the process of removing seeds and seed-holding structures from plants.

dew retting, n —*in flax*, the process of pulling or cutting flax straw and leaving on the soil for a period of time to allow partial degradation of straw to effect retting.

enzyme retting, n —*in flax*, the process of mechanically adding enzyme formulations under precise conditions to pulled or cut flax straw for a period of time to effect retting.

fiber bundle, n —*in flax*, group of ultimate fibers which are held together in the flax stem by pectins, lignins or any combination thereof.

flax, n —the generic name for plants that are botanically classified as *Linum usitatissimum*, which are cultivated for seed and/or fiber.