



Designation: D 3217 – 01a

Standard Test Methods for Breaking Tenacity of Manufactured Textile Fibers in Loop or Knot Configurations¹

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1. Scope

1.1 These test methods cover the measurement of the breaking tenacity of manufactured textile fibers taken from filament yarns, staple, or tow fiber, either crimped or uncrimped, and tested in either a double loop or as a strand formed into a single overhand knot.

1.2 Methods for measuring the breaking tenacity of conditioned and wet (immersed) fibers in loop and knot form are included.

1.3 Elongation in loop or knot tests has no known significance, and is usually not recorded.

1.4 The basic distinction between the procedures described in these test methods and those included in Test Methods D 2101 is the configuration of the specimen, that is, either as a double loop or in the configuration of a single overhand knot.

1.5 *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:*

¹ These test methods are under the jurisdiction of ASTM Committee D13 on Textiles and are the direct responsibility of Subcommittee D13.58 on Yarn and Fiber Test Methods.

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