



Designation: D3775 – 17 (Reapproved 2023)

Standard Test Method for End (Warp) and Pick (Filling) Count of Woven Fabrics¹

This standard is issued under the fixed designation D3775; 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 test method covers the measurement of end (warp) and pick (filling) count and is applicable to all types of woven fabrics.

NOTE 1—Historically, the term fabric count has been used to describe the end and pick count of woven fabrics. The terms end count and pick count are replacing the term fabric count, to provide clarity.

1.2 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only.

1.2.1 Throughout this document, there will be some instances in which the units do not convert 1:1. This is to acknowledge that this is a global document and that different parts of the world use different units of measurement. Organizations using the metric system will report the count per 1 cm. Organizations using the English system will report the count per 1 in.

1.3 *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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

NOTE 2—For a current test method for the wale and course count of weft knitted fabrics, refer to Test Method **D8007**.

1.4 *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

D123 Terminology Relating to Textiles

D1776 Practice for Conditioning and Testing Textiles

D4850 Terminology Relating to Fabrics and Fabric Test Methods

D7023 Terminology Relating to Home Furnishings

D8007 Test Method for Wale and Course Count of Weft Knitted Fabrics

2.2 *Other Standard:*

ANSI/ASQC Z1.4—Inspection by Attributes³

3. Terminology

3.1 For all terminology related to D13.59, Fabric Test Methods, General, refer to Terminology **D4850**

3.1.1 The following terms are relevant to this standard: count, end, end count, filling, pick, pick count, thread count.

3.2 For all terminology related to Home Furnishings, refer to Terminology **D7023**.

3.3 For all other terms related to textiles, refer to Terminology **D123**.

4. Summary of Test Method

4.1 The number of ends per unit distance and picks per unit distance are determined using suitable magnifying and counting devices or by raveling yarns from fabrics. See ANSI Z1.4.

5. Significance and Use

5.1 This test method is considered satisfactory for acceptance testing of commercial shipments because it has been used extensively in the trade for that purpose.

5.1.1 If there are differences of practical significance between reported test results for two laboratories (or more), comparative test should be performed to determine if there is a

¹ This test method is under the jurisdiction of ASTM Committee **D13** on Fabric Physical Test Methods B

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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 Available from American National Standards Institute, 11 W. 42nd St., 13th Floor, New York, NY 10036.