



Designation: D3597 – 02 (Reapproved 2024)

Standard Performance Specification for Woven Upholstery Fabrics—Plain, Tufted, or Flocked¹

This standard is issued under the fixed designation D3597; 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.

1. Scope

1.1 This performance specification covers the performance requirements for plain, tufted, or flocked woven upholstery fabrics as used in the manufacture of new indoor furniture. These requirements apply to both the warp and filling directions for those factors where each fabric direction is pertinent.

1.2 This performance specification is not applicable to fabrics used in porch, deck, or lawn furniture; nor for knitted fabrics, bonded or laminated fabrics, or surface-coated fabrics (such as vinyls and urethanes).

1.3 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.4 *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.*

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

D123 Terminology Relating to Textiles

D434 Test Method for Resistance to Slippage of Yarns in Woven Fabrics Using a Standard Seam (Withdrawn 2003)³

D1424 Test Method for Tearing Strength of Fabrics by Falling-Pendulum (Elmendorf-Type) Apparatus

D2262 Test Method for Tearing Strength of Woven Fabrics by the Tongue (Single Rip) Method (Constant-Rate-of-Traverse Tensile Testing Machine) (Withdrawn 1995)³

D4157 Test Method for Abrasion Resistance of Textile Fabrics (Oscillatory Cylinder Method)

D5034 Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)

2.2 AATCC Test Methods:⁴

Test Method 8 AATCC Colorfastness to Crocking: Crockmeter Method

Test Method 16.3 Colorfastness to Light: Xenon Arc

Test Method 23 Colorfastness to Burnt Gas Fumes

Test Method 107 Colorfastness to Water

Test Method 116 Colorfastness to Crocking: Rotary Vertical Crockmeter Method

Test Method 129 Colorfastness to Ozone in the Atmosphere Under High Humidities

Evaluation Procedure 1 Gray Scale for Color Change

Evaluation Procedure 8 AATCC 9-Step Chromatic Transference Scale

2.3 Federal Standard:

16CFR, Chapter II-Consumer Product Safety Commission, Subchapter D-Flammable Fabrics Act Regulation⁵

2.4 Military Standard:

ASQ/ANSI Z1.4 Sampling Procedures and Tables for Inspection by Attributes⁶

2.5 Non-Government Organization Standard:

Specifications Standards Test Procedures for Upholstered Furniture Fabrics⁷

Guides for the Household Furniture Industry⁸

¹ This performance specification is under the jurisdiction of ASTM Committee D13 on Textiles and is the direct responsibility of Subcommittee D13.63 on Home Furnishings.

Current edition approved June 1, 2024. Published June 2024. Originally approved in 1977. Last previous edition approved in 2018 as D3597 – 02 (2018)^{ε1}. DOI: 10.1520/D3597-02R24.

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at www.astm.org/contact. 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.

⁴ AATCC Technical Manual, available from American Association of Textile Chemists and Colorists (AATCC), P.O. Box 12215, Research Triangle Park, NC 27709, <http://www.aatcc.org>.

⁵ Available from Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

⁶ Available from DLA Document Services, Building 4/D, 700 Robbins Ave., Philadelphia, PA 19111-5094, <http://quicksearch.dla.mil>.

⁷ Issued in 1969 by the National Association of Furniture Manufacturers and the National Retail Furniture Association. Available from Home Furniture Manufacturers Assn., P. O. Box HP-7, High Point, NC 27261.

⁸ Available from the Bureau of Consumer Protection, Federal Trade Commission, Washington, DC 20580.