



Standard Performance Specification for Men’s, Women’s, and Children’s Woven Handkerchief Fabrics¹

This standard is issued under the fixed designation D4153; 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 woven fabrics to be used in the manufacture of men’s, women’s, and children’s handkerchiefs, both utilitarian and decorative.

1.2 This performance specification is not applicable to open-work fabrics such as lace which is used primarily to decorate handkerchiefs, or woven fabrics used for the manufacture of scarves.

1.3 These requirements apply to both the length and width directions for those properties where fabric direction is pertinent.

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

2. Referenced Documents

2.1 *ASTM Standards:*²

[D123 Terminology Relating to Textiles](#)

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

[D2261 Test Method for Tearing Strength of Fabrics by the Tongue \(Single Rip\) Procedure \(Constant-Rate-of-Extension Tensile Testing Machine\)](#)

[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Strength of Woven Fabrics by the Tongue \(Single Rip\) Method \(Constant-Rate-of-Traverse Tensile Testing Machine\) \(Withdrawn 1995\)](#)³

[D2905 Practice for Statements on Number of Specimens for Textiles \(Withdrawn 2008\)](#)³

¹ This performance specification is under the jurisdiction of ASTM Committee D13 on Textiles and is the direct responsibility of Subcommittee D13.61 on Apparel.

Current edition approved Feb. 1, 2014. Published March 2014. Originally approved in 1982. Last previous edition approved in 2012 as D4153 – 01(2012). DOI: 10.1520/D4153-14.

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.

[D5034 Test Method for Breaking Strength and Elongation of Textile Fabrics \(Grab Test\)](#)

2.2 *AATCC Test Methods:*⁴

[8 Colorfastness to Crocking: AATCC Crockmeter Method](#)

[15 Colorfastness to Perspiration](#)

[16 Colorfastness to Light](#)

[23 Colorfastness to Burnt Gas Fumes](#)

[61 Colorfastness to Washing, Domestic, and Laundering, Commercial: Accelerated](#)

[96 Dimensional Changes in Laundering of Woven and Knitted Textiles Except Wool](#)

[116 Colorfastness to Crocking: Rotary Vertical Crockmeter Method](#)

[124 Appearance of Durable Press Fabrics after Repeated Home Launderings](#)

[135 Dimensional Changes in Automatic Home Laundering of Woven or Knit Fabrics](#)

[172 Colorfastness to Non-chlorine Bleach in Home Laundering](#)

[188 Colorfastness to Chlorine Bleach in Home Laundering](#)

2.3 *Federal Standard:*

[16CFR—Code of Federal Regulations, Chapter II—Consumer Product Safety Commission, Subchapter D—Flammable Fabrics Act Regulations](#)⁵

2.4 *Military Standard:*

[MIL-STD—105 Sampling Procedures and Tables for Inspection by Attributes](#)⁶

NOTE 1—Reference to test methods in this performance specification give only the permanent part of the designation of ASTM, AATCC, or other test methods. The current editions of each test method cited shall prevail.

3. Terminology

3.1 *Definitions:*

⁴ 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 U.S. Government Printing Office Superintendent of Documents, 732 N. Capitol St., NW, Mail Stop: SDE, Washington, DC 20401, <http://www.access.gpo.gov>.

⁶ Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, Attn: NPODS.