



Designation: **D3785 – 02 (Reapproved 2008) D3785 – 13**

Standard Performance Specification for Woven Necktie and Scarf Fabrics¹

This standard is issued under the fixed designation D3785; 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 necktie and scarf fabrics composed of any textile fiber or mixture of textile fibers.

1.2 This performance specification is not applicable to woven fabrics used for interlinings.

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

1.3.1 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 The following precautionary caveat pertains only to the test methods portion, Section 7, of this specification. *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](#)

[D434 Test Method for Resistance to Slippage of Yarns in Woven Fabrics Using a Standard Seam](#) (Withdrawn 2003)³

[D1336 Test Method for Distortion of Yarn in Woven Fabrics](#)

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

[D1682 Test Method for Breaking Load and Elongation of Textile Fabric](#) (Withdrawn 1992)³

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of Woven Fabrics by the Tongue \(Single Rip\) Method \(Constant-Rate-of-Transpose Tensile Testing Machine\)](#) (Withdrawn 1995)³

[D2724 Test Methods for Bonded, Fused, and Laminated Apparel Fabrics](#)

[D2905 Practice for Statements on Number of Specimens for Textiles](#) (Withdrawn 2008)³

[D7022 Terminology Relating to Apparel](#)³

2.2 *AATCC Methods:*⁴

~~8-19748~~ [Colorfastness to Crocking: AATCC-Crockmeter Method](#)

~~15-197615~~ [Colorfastness to Perspiration](#)

~~16-197416.3~~ [Colorfastness to Light](#)

~~23-197523~~ [Colorfastness to Burnt Gas Fumes](#)

~~61-197561~~ [Colorfastness to Washing, Domestic, and Laundering, Commercial: Laundering: Accelerated](#)

~~96-197596~~ [Dimensional Changes in Commercial Laundering of Woven and Knitted Textiles Fabrics Except Wool](#)

~~116-1974116~~ [Colorfastness to Crocking: Rotary Vertical Crockmeter Method](#)

~~124-1975124~~ [Smoothness Appearance of Durable Press Fabrics After Repeated Home Launderings](#)

~~132-1976132~~ [Colorfastness to Drycleaning](#)

~~135-1973135~~ [Dimensional Changes in Automatic Home Laundering of Durable Press Woven or Knit Fabrics of Fabrics After Home Laundering](#)

~~172~~ [Colorfastness to Powdered Non-Chlorine Bleach in Home Laundering](#)

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 Aug. 1, 2008; July 1, 2013. Published October 2008; August 2013. Originally approved in 1979. Last previous edition approved in 2002 as D3785 – 02; D3785 – 02(2008). DOI: 10.1520/D3785-02R08; 10.1520/D3785-13.

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.

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

188 Colorfastness to Sodium Hypochlorite Bleach in Home Laundering
 Evaluation Procedure 1 Gray Scale for Color Change
 Evaluation Procedure 2 Gray Scale for Staining
 Evaluation Procedure 38 AATCC 9-Step Chromatic Transference Scale

NOTE 1—Reference to test methods in this 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:

3.1.1 ~~scarf~~—~~in apparel, an oblong or square piece of cloth worn for warmth or as a decorative item.~~

3.1 For definitions of textile terms used in this specification, refer to Terminology Terminologies D123 and D7022 the Technical Manual of the American Association of Textile Chemists and Colorists. For terms relating to chemical or colorfastness testing, refer to specific AATCC methods.

4. Specification Requirements

4.1 The properties of fabrics for woven neckties and scarfs shall conform to the specification requirements in Table 1.

TABLE 1 Specification Requirements

NOTE 1—Class in colorfastness and DP requirements is based on a numerical scale of 5 for negligible or no color change, color transfer, or fabric wrinkle to 1 for severe color change, color transfer, or fabric wrinkle.

Characteristic	Requirements	Section
Breaking strength (load) (CRT)	20 lbf (89 N), min	7.1
Yarn slippage	¼-in. (6.3-mm) separation at 15 lbf(67 N), min	7.2
Tongue tear strength	1.5 lbf (6.7 N), min	7.3
Yarn distortion:		7.4
Satis	0.10 in. (2.5 mm), min	
All other	0.05 in. (1 mm), min	
Dimensional change:		
After five launderings	3 % max	7.5.1
After three dry cleanings	2 % max	7.5.2
Colorfastness:		
Burnt gas fumes—2 cycles:		7.6.1
Shade change, original fabric	Class 4 ^A min	
Shade change after one laundering or one dry cleaning	Class 4 ^A min	
Sodium Hypochlorite Bleach	Class 4 ^A min	7.6.7
Non-Chlorine Bleach	Class 4 ^A min	7.6.8
Powdered Non-Chlorine Bleach	Class 4 ^A min	7.6.8
Laundering:		7.6.2
Shade change	Class 4 ^A min	
Staining	Class 3 ^B min	
Dry cleaning:		7.6.3
Shade change	Class 4 ^A min	
Crocking:		7.6.4
Dry	Class 4 ^C min	
Wet	Class 3 ^C min	
Perspiration:		7.6.5
Shade change	Class 4 ^A min	
Staining	Class 3 ^B min	
Light (20 AATCC FU) (xenon-arc)	Step 4 ^A min	7.6.6
Fabric appearance (see 7.7.1.1)	DP 3.5 ^D min	7.7
Flammability	pass	7.8

^A AATCC Gray Scale for Color Change.

^B AATCC Gray Scale for Staining.

^C AATCC 9-Step Chromatic Transference Scale

^D For durable-press fabrics only.

5. Significance and Use

5.1 Upon mutual agreement between the purchaser and the seller, woven fabrics intended for this end use should meet all of the requirements listed in Table 1 of this specification.