



Designation: D3995 – 14

Standard Performance Specification for Men's and Women's Knitted Career Apparel Fabrics: Dress and Vocational¹

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1. Scope

1.1 This performance specification covers the minimum performance requirements for men's and women's knitted fabrics for dress and vocational career apparel composed of any textile fiber or mixtures of textile fibers.

1.2 This performance specification is not applicable to career apparel fabrics such as those used in protective clothing, that do not patently fit the categories Career Apparel or Career Apparel, Dress (see Terminology [D7022](#) for these terms). Minimum performance specifications for such fabrics should be as agreed between the purchaser and the seller.

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

1.4 The following precautionary statement 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](#)
- [D2724 Test Methods for Bonded, Fused, and Laminated Apparel Fabrics](#)
- [D2905 Practice for Statements on Number of Specimens for Textiles \(Withdrawn 2008\)³](#)
- [D3786 Test Method for Bursting Strength of Textile](#)

- [Fabrics—Diaphragm Bursting Strength Tester Method D3787 Test Method for Bursting Strength of Textiles—Constant-Rate-of-Traversal \(CRT\) Ball Burst Test](#)
- [D7022 Terminology Relating to Apparel](#)

2.2 AATCC Methods:⁴

- [AATCC 8 Colorfastness to Crocking: Crockmeter Method](#)
- [AATCC 15 Colorfastness to Perspiration](#)
- [AATCC 16.3 Colorfastness to Light](#)
- [AATCC 23 Colorfastness to Burnt Gas Fumes](#)
- [AATCC 61 Colorfastness to Laundering: Accelerated](#)
- [AATCC 116 Colorfastness to Crocking, Rotary Vertical Crockmeter Method](#)
- [AATCC 124 Smoothness Appearance of Fabrics After Repeated Home Laundering](#)
- [AATCC 132 Colorfastness to Drycleaning](#)
- [AATCC 135 Dimensional Changes of Fabrics After Home Laundering](#)
- [AATCC 172 Colorfastness to Powdered Non-Chlorine Bleach in Home Laundering](#)
- [AATCC 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 8 Chromatic 9-Step Transference Scale](#)

2.3 Federal Standard:⁵

- [16 CFR 1610 Standard for Flammability of Clothing Textiles](#)

NOTE 1—The specific dated editions of ASTM test methods that prevail in this standard are referenced in Section 7 on Test Methods.

3. Terminology

3.1 For all terminology related to Apparel see Terminology [D7022](#).

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.

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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 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.

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

3.1.1 The following terms are relevant to this standard: career apparel, career apparel, dress, career apparel, vocational, dimensional change in pressing and finishing, pressing and finishing.

3.2 For terms relating to chemical or colorfastness testing, refer to specific AATCC methods. For definitions of all other textile terms see Terminology D123.

4. Specification Requirements

4.1 The properties of knitted fabric for men’s and women’s career apparel shall conform to the specification requirement in Table 1.

5. Significance and Use

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

5.2 It is recognized that for purposes of fashion or aesthetics the ultimate consumer of articles made from these fabrics may find acceptable fabrics that do not conform to all of the requirements in Table 1. Therefore, one or more of the requirements listed in Table 1 may be modified by mutual agreement between the purchaser and the seller.

5.2.1 In such cases, any references to the specification shall specify that: “This fabric meets ASTM Specification D3995 except for the following characteristic(s).”

5.3 Where no prepurchase agreement has been reached between the purchaser and the seller, and in case of controversy, the requirements listed in Table 1 are intended to be used as a guide only. As noted in 5.2, ultimate consumer demands dictate varying performance parameters for any particular style of fabric.

5.4 The significance and use of particular properties and test methods are discussed in the appropriate sections of the specified test methods.

6. Sampling

6.1 Tests shall be performed on the fabric as it will reach the consumer. Any “partially finished” or “post-finished” fabrics or those which will be pleated, creased, steamed, or pressed during manufacturing should be processed in accordance with the fabric manufacturer’s instructions before tests are made.

6.2 Unless otherwise agreed upon, as when specified in an applicable material specification, take the number of specimens directed in each of the applicable test methods.

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TABLE 1 Specification Requirements
Document Preview

NOTE 1—The grades of colorfastness and SA rating are based on a numerical scale of 5 for negligible or no color change, color transfer, or wrinkle to 1 for very severe color change, color transfer, or wrinkle.

Characteristics	Requirements		Section
	Career Dress Apparel	Career Vocational Apparel	
Bursting strength (ball burst)	60 lbf (267 N) min	60 lbf (267 N) min	7.1
Dimensional stability (each direction):			
Pressing and finishing	2 % max shrinkage, 0 % growth	2 % max shrink, 0 % growth	7.2.1
After 5 washes	3 % max	3 % max	7.2.2
After 3 drycleanings	3 % max	3 % max	7.2.4
Fabric smoothness	Grade 4, SA, min	Grade 3, SA, min	7.3
Flammability	Grade 1 or Grade 2	Grade 1 or Grade 2	7.4
Colorfastness:			
Laundering: ^D			7.5.1
Color change	Grade 4, min ^A	Grade 4, min ^A	
Staining	Grade 3 or 4, min, ^B	Grade 3 or 4, min ^B	
Sodium Hypochlorite Bleach	Grade 4, min ^A	Grade 4, min ^A	7.5.8
Powdered Non-Chlorine Bleach	Grade 4, min ^A	Grade 4, min ^A	7.5.9
Drycleaning:			7.5.3
Color change	Grade 4, min, ^A	Grade 4, min ^A	
Crocking: ^D			7.5.4
Dry	Grade 4, min ^C	Grade 4, min ^C	
Wet	Grade 3, min ^C	Grade 3, min ^C	
Burnt Gas Fumes—1 cycle:			7.5.5
Shade change, original fabric and after 1 laundering or 1 drycleaning	Grade 4, min	Grade 4, min ^A	
Light: (xenon-arc)			7.5.6
Outdoor (40 AATCC SFU)	Grade 4, min ^A	Grade 4, min ^A	
Indoor (20 AATCC SFU)	Grade 4, min ^A	Grade 4, min ^A	
Perspiration: ^D			7.5.7
Color change	Grade 4, min ^A	Grade 4, min ^A	
Staining	Grade 3, min ^B	Grade 3, min ^B	

^A AATCC Gray Scale for Color Change.

^B AATCC Gray Scale for Staining.

^C AATCC 9-Step Chromatic Transference Scale.

^D See Note 6.