



Designation: ~~D3995-95~~ Designation: D 3995 – 02 (Reapproved 2008)

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

This standard is issued under the fixed designation D 3995; 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 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 in 3.1.1 and 3.1.2. 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

D 123 Terminology Relating to Textiles

D 2724 Test Methods for Bonded, Fused, and Laminated Apparel Fabrics

D 2905 Practice for Statements on Number of Specimens for Textiles

~~D 3786 Test Method for Hydraulic Bursting Strength of Knitted Goods and Nonwoven Fabrics—Diaphragm Bursting Strength Tester Method~~ Test Method for Bursting Strength of Textile Fabrics Diaphragm Bursting Strength Tester Method

~~D 3787 Test Method for Bursting Strength of Knitted Goods—Constant-Rate-of-Traversal (CRT) Ball Burst Test~~³

~~D 3887 Specification for Tolerances for Knitted Fabric~~³ Test Method for Bursting Strength of Textiles Constant-Rate-of-Traversal (CRT) Ball Burst Test

2.2 AATCC Methods:³

AATCC 8 Colorfastness to Crocking: AATCC Crockmeter Method

AATCC 15 Colorfastness to Perspiration

AATCC 16 Colorfastness to Light

AATCC 23 Colorfastness to Burnt Gas Fumes

AATCC 61 Colorfastness to Washing, Domestic Laundering, Commercial: Accelerated

AATCC 116 Colorfastness to Crocking, Rotary Vertical Crockmeter Method

AATCC 124 Appearance of Durable Press Fabrics After Repeated Home Launderings

AATCC 132 Colorfastness to Drycleaning

AATCC 135 Dimensional Change in Automatic Home Laundering of Durable Press Woven or Knit Fabrics

AATCC 172 Colorfastness to 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 3 Chromatic Transference Scale

¹ This 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 May 15, 1995. Published July 1995. Originally published as D3995-81. Last previous edition D3995-92.

² 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. Published October 2008. Originally approved in 1981. Last previous edition approved in 2002 as D 3995 – 02.

³ 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*, Vol 07.01, volume information, refer to the standard's Document Summary page on the ASTM website.

⁴ Annual Book of ASTM Standards, Vol 07.02.

⁵ Available from American Association of Textile Chemists and Colorists (AATCC), P.O. Box 12215, Research Triangle Park, NC 27709, <http://www.aatcc.org>.

2.3 Federal Standard:⁴

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 Definitions:

3.1.1 *career apparel, n*—garments which are manufactured for a variety of end uses and for which performance requirements vary.

3.1.1.1 *Discussion*—The two major end uses for career apparel are dress apparel and vocational apparel.

3.1.2 *career apparel, dress, n*—a category of tailored uniform in which abusive wear is not common and in which appearance is much more important than durability (see also *career apparel, vocational career apparel*).

3.1.3 *career apparel, vocational, n*—a type of garment worn as a uniform in which abusive wear is common and durability is generally more important than appearance (see also *career apparel, dress career apparel*).

3.1.4 *dimensional change in pressing and finishing, n*—the change in dimensions undergone by a fabric subjected to pressing and finishing during garment manufacturing.

3.1.5 For definitions of other terms used in this specification, refer to the individual ASTM and AATCC test methods and Terminology D 123.

3.2 Definitions of Terms Specific to This Standard:

3.2.1 *pressing and finishing, n*—this term takes into account a variety of industrial pressing and finishing treatments used in garment manufacturing.

NOTE 2—No standard method is available for reproducing on a laboratory level the results of industrial press or finishing treatments, or both, used in the manufacture of knitted apparel garments.

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 D 3995 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.

6.2.1 If there has been no prior agreement and the test method does not specify the number of specimens, use the procedures in Practice D 2905 to determine the number of specimens, such that the user may expect at the 95 % probability level that the test result is no more than 5 % of the average above or below the lot average (that is, the average that would be obtained by applying this method to the entire lot) using a reliable estimate of variability of individual observations on similar materials in the user's laboratory under conditions of single-operator precision.

7. Test Methods (Note 1)

7.1 *Bursting Strength*—Determine the bursting strength as directed in Test Methods D 3787 or D 3786.

⁴ Available from American Association of Textile Chemists and Colorists, P.O. Box 12215, Research Triangle Park, N.C. 27709.

⁴ Available from Superintendent of Documents, Government Printing Office, Washington, DC 20402.