



Designation: ~~D7268-06~~ Designation: D7268 - 12

## Standard Performance Specification for Seamless Knit Garments Including Intimates and Swimwear<sup>1</sup>

This standard is issued under the fixed designation D7268; 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 ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

### 1. Scope

1.1 This specification covers the evaluation of specific performance characteristics of importance in seamless knit garments, including camisoles, panties, slips, girdles and swimwear.

1.2 The following safety hazards caveat pertains only to the test methods described in this performance 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 (See Note 1)

#### 2.1 ASTM Standards:<sup>2</sup>

D123 Terminology Relating to Textiles

D629 Test Methods for Quantitative Analysis of Textiles

D1230 Test Method for Flammability of Apparel Textiles

D2905 Practice for Statements on Number of Specimens for Textiles

D3107 Test Methods for Stretch Properties of Fabrics Woven from Stretch Yarns

D3136 Terminology Relating to Care Labeling for Apparel, Textile, Home Furnishing, and Leather Products

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-Traverse (CRT) Ball Burst Test~~ Constant-Rate-of-Traverse (CRT) Ball Burst Test

D7022 Terminology Relating to Apparel

#### 2.2 AATCC Test Methods:<sup>3</sup>

8 Colorfastness to Crocking: AATCC Crockmeter Method

15 Colorfastness to Perspiration

16 Colorfastness to Light

20 Fiber Analysis: Qualitative

20 A Fiber Analysis: Quantitative

61 Colorfastness to Laundering, Home and Commercial: Accelerated

106 Colorfastness to Water: Sea

107 Colorfastness to Water

116 Colorfastness to Crocking: Rotary Vertical Crockmeter Method

132 Colorfastness to Drycleaning

150 Dimensional Changes in Automatic Home Laundering of Garments

158 Dimensional Changes on Drycleaning in Perchloroethylene: Machine Method

162 Colorfastness to Water: Chlorinated Pool

172 Colorfastness to Non-Chlorine Bleach in Home Laundering

179 Skewness Change in Fabric and Garment Twist Resulting from Automatic Home Laundering

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 9-Step Chromatic Transference Scale ~~Glossary for AATCC Standard Terminology~~

<sup>1</sup> This 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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<sup>2</sup> 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.

<sup>3</sup> Available from American Association of Textile Chemists and Colorists, P.O. Box 12215, Research Triangle Park, NC 27709.

## Glossary for AATCC Standard Terminology

### AATCC-ASTM TS-001 Quick Methods for Colorfastness to Chlorine and Non-Chlorine Bleach

NOTE 1—AATCC-ASTM TS-001 contains quick test methods for color change from chlorine and non-chlorine bleach. The methods have not been validated for verified. In case of dispute use AATCC 172 and/or 188 for bleach test results.

#### 2.3 Federal Standards:<sup>4</sup>

16 CFR 1610 Flammable Fabrics Act

NOTE 2—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 For definitions of textile terms used in this performance specification refer to Terminology.

3.1.1 For all terminology related to Apparel see Terminology D7022.

3.2 The following terms are relevant to this standard: camisole, girdle, intimates, panties, seamless knit garment, slip, swimwear.

3.3 For definitions of all other textile terms see Terminology D123 and the AATCC Glossary. For definitions of care labeling terms refer to Terminology D3136.

3.1.1 *camisole, n*—waist-length, straight-cut top with shoulder straps worn under outerwear.

3.1.2 *girdle, n*—an underwear support garment designed to mold various sections of the abdomen and sometimes legs.

3.1.3 *intimates, n*—broad term for women's underwears including camisoles, girdles, slips and bras.

3.1.4 *panties, n*—garments worn under outer clothing covering the torso below the waist.

3.1.5 *seamless knit garment, n*—apparel made of knitted fabric without vertical seams.

3.1.6 *slip, n*—undergarment worn by women and girls under dresses and skirts.

3.1.7 *swimwear, n*—close fitting apparel worn for swimming or sun bathing.

### 4. Significance and Use

4.1 Upon mutual agreement between the purchaser and the supplier, seamless knit garments intended for this end use should meet all of the requirements listed in Table 1 of this specification.

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

<sup>4</sup> Available from Superintendent of Documents, Government Printing Office, Washington, DC 20402.

**TABLE 1 Specification Requirements**

Characteristic	Requirements	Section
Bursting Strength	<5 oz 30 lb/sq in	
Colorfastness		
Laundering	Color Change 4.0 Min Staining 3.0 Min	7.2
Drycleaning	Color change 4.0 Min Staining 3.0 Min	7.3
Crocking	Dry 4.0 Min Wet 3.0 Min	7.4
Light Swimwear 40 AFU's	Grade 3.5 Min	7.5
Intimates 20 AFU's	Grade 3.5 Min	
Perspiration	Color change 4.5 Min Staining 3.5 Min	7.6
Water	Color change 4.5 Min Staining 3.5 Min	7.7
Sea Water (Swimwear only)	Color change 4.0 Min	7.8
Chlorinated Pool Water (Swimwear only)	Color change 4.0 Min	7.9
Bleach		7.10
Chlorine	Grade 4 Min	
Non-Chlorine	Grade 4 Min	
Dimensional Change		7.11
Laundering — Each direction	±5.0% Max	
Drycleaning- Each direction	±3.0% Max	
Stretch	Record Actual	7.12
Flammability	Class 1	7.13
Garment Twist	5 % max	7.14
Fiber Content	Blends ±3.0% Max 100% Fibers ±0.0% Max	7.15