



Designation: D 6663 – 01

Standard Specification for Woven and Knitted Comforter and Accessory Products for Institutional and Household Use¹

This standard is issued under the fixed designation D 6663; 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 specification covers the evaluation of specific performance characteristics of importance in woven and knit comforter and accessory products, except for pillows and window treatments, for use in institutional and household environments.

1.2 The following safety hazards caveat pertains only to the test methods described in this specification: *This standard may involve hazardous materials, operations, and equipment. 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:

- D 123 Terminology Relating to Textiles²
- D 1230 Test Method for Flammability of Textiles²
- D 1776 Practice for Conditioning Textiles for Testing²
- D 2905 Practice for Statements on Number of Specimens for Textiles²
- D 3136 Terminology for Permanent Care Labels for Consumer Textile and Leather Products Other than Carpets and Upholstery²
- D 3512 Test Method for Pilling Resistance and Other Related Surface Changes of Textile Fabrics: Random Tumbling Pilling Tester Method³
- D 3786 Test Method for Hydraulic Bursting Strength of Knitted Goods and Nonwoven Fabrics Diaphragm Bursting Strength Tester Method³
- D 3787 Test Method for Bursting Strength of Knitted Goods Constant-Rate-of-Traverse (CRT) Ball Burst Test³
- D 3882 Test Method for Bow and Skewness in Woven and Knitted Fabrics³
- D 5034 Test Method for Breaking Force and Elongation of

Textile Fabrics (Grab Test)³

2.2 AATCC Standards:⁴

- Test Method 8 Colorfastness to Crocking: AATCC Crockmeter Method
- Test Method 15 Colorfastness to Perspiration
- Test Method 16 Colorfastness to Light
- Test Method 61 Colorfastness to Laundering, Home and Commercial: Accelerated
- Test Method 88B Appearance of Seams in Durable Press Items After Repeated Home Launderings
- Test Method 96 Dimensional Changes in Commercial Laundering of Woven and Knitted Fabrics Except Wool
- Test Method 116 Colorfastness to Crocking: Rotary Vertical Crockmeter Method
- Test Method 124 Appearance of Fabrics After Repeated Home Laundering
- Test Method 132 Colorfastness to Drycleaning
- Test Method 135 Dimensional Changes in Automatic Home Laundering of Woven and Knit Fabrics
- Test Method 143 Appearance of Apparel and Other Textile End Products After Repeated Home Launderings
- Evaluation Procedure 1 Gray Scale for Color Change
- Evaluation Procedure 2 Gray Scale for Staining
- Evaluation Procedure 3 AATCC Chromatic Transference Scale

2.3 Other Documents:

Glossary for AATCC Standard Terminology⁵

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

3. Terminology

3.1 Definitions:

3.1.1 For definitions of other textile terms used in this performance specification, refer to Terminology D 123 and the AATCC Glossary. For definitions of care labeling terms, refer to Terminology D 3136.

3.1.2 *bedskirt, n*—a decorative product which is positioned below the mattress and drapes to the floor; a dustruffle.

¹ This specification is under the jurisdiction of ASTM Committee D13 on Textiles and is the direct responsibility of Subcommittee D13.63 on Home Furnishings.

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² *Annual Book of ASTM Standards*, Vol 07.01.

³ *Annual Book of ASTM Standards*, Vol 07.02.

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

⁵ Available in the AATCC Technical Manual.

3.1.3 *comforter, n*—a bed covering assembly, consisting of an insulating filler secure between two layers of fabric, designed to reduce heat loss.

3.1.4 *comforter accessories, n*—products which augment or enhance the decorative feature of the comforter.

3.1.4.1 *Discussion*—Accessories can include pillowshams, dustruffles, bedskirts, duvets, etc. but does not include pillows or window treatments.

3.1.5 *duvet, n*—a decorative outercover in which a comforter is inserted.

3.1.6 *fill leakage, n*—in comforters, either partial or total penetration of batting material through the outer or face fabric.

3.1.7 *pillow sham, n*—a decorative product which covers a bed pillow.

3.1.8 For definitions of other textile terms used in this specification, refer to Terminology D 123 and the AATCC Glossary. For definitions of care labeling terms, refer to Terminology D 3136.

4. Significance and Use

4.1 Upon mutual agreement between the purchaser and the supplier, comforter and accessory products 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 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.

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

4.3 Where no pre-purchase agreement has been reached between the purchaser and the supplier, and in case of controversy, the requirements listed in Table 1 are intended to be used as a guide only. As noted in 4.2, ultimate consumer demands dictate varying performance parameters for any particular product.

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

5. Sampling

5.1 *Acceptance Testing Lot*—Unless agreed otherwise, consider as a lot for acceptance testing all material of a single item as a single shipment.

5.2 *Lot Samples and Laboratory Samples*—For acceptance testing, take lot samples and laboratory samples as directed in each of the applicable test methods.

5.3 *Specimens*—Take the number of specimens directed in each of the applicable test methods. Perform the tests on the

TABLE 1 Specification Requirements

Characteristics	Requirements		Section
	Woven Comforter and Accessories	Knitted Comforter and Accessories	
Breaking Force (CRT) Type Machine—Each Direction ^A	133 N (30 lbf) Min	NA	7.1.1
Bursting Strength ^A	NA	155 kPa (35 psi) Min	7.1.2
Pilling	4.0 Min	4.0 Min	7.1.3
Dimensional Change to:			7.1.4
Laundering—Each Direction	3.0 % Max	5.0 % Max	
Dry Cleaning—Each Direction	3.0 % Max	5.0 % Max	
Refurbishing			
Appearance (Fabric)			7.2.1
Polyester/Cotton	SA 3.0 Min ^B	SA 3.0 Min ^B	
100 % Cotton	SA 2.2 Min ^B	SA 2.2 Min ^B	
Bow and Skewness			7.1.7
Fabric Weave	3.0 % Max	3.0 % Max	
Pattern Print	Acceptable	Acceptable	
Colorfastness to:			
Laundering:			7.1.7.1
Alteration in Shade	Class 4 Min ^C	Class 4 Min ^C	
Staining	Class 3 Min ^D	Class 3 Min ^D	
Dry Cleaning - (Shade Change)	Class 4 Min ^C	Class 4 Min ^C	7.1.7.2
Crocking			7.1.7.3
Dry	Class 4 Min ^D	Class 4 Min ^D	
Wet	Class 3 Min ^D	Class 3 Min ^D	
Light (20 AATCC FU) Xenon-Arc ^A	Step 4 Min ^C	Step 4 Min ^C	7.1.7.4
Perspiration			7.1.7.5
Alteration in Shade	Class 4 Min ^C	Class 4 Min ^C	
Staining	Class 3 Min ^D	Class 3 Min ^D	
Flammability (Product)	Class 1	Class 1	7.1.7.6
Refurbishing	Acceptable	Acceptable	7.2.1
Appearance (Product)			
Fill Leakage (Product)	Acceptable	Acceptable	7.2.2

^A There is more than one standard method that can be used to measure breaking force, bursting force, tear resistance, and lightfastness. These methods cannot be used interchangeably because there may be no overall correlation between them. See Notes 2-5.

^B Class in colorfastness and SA rating is based on a numerical scale of 5.0 for negligible color change, color transfer, or wrinkling to 1.0 for vary severe color change, color transfer or wrinkling. The numerical rating in Table 1 or higher is acceptable.

^C AATCC Gray Scale for Color Change.

^D AATCC Gray Scale for Staining.