



Standard Specification for Woven, Knitted and Flocked Bedspread Products for Institutional and Household Use¹

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1. Scope

1.1 This specification covers the evaluation of specific performance characteristics of importance in woven, knit and flocked bedspread products 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-Traversal (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 *bedspread, n*—a type of bedcovering that is placed over blankets or sheets for appearance and sometimes warmth.

3.1.3 *tailored bedspread, n*—a bedcovering sewn to fit the corner contours of the mattress.

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.

3.1.4 *throw bedspread, n*—a bedcovering made to drape on the bed that reaches to or near the floor, and which is not sewn to fit the corner contour of the mattress.

4. Significance and Use

4.1 Upon mutual agreement between the purchaser and the supplier, bedspread 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 product as it reaches the consumer. Any “partially finished” or “post-finish” fabrics should be processed in accordance with the fabric manufacturer’s instructions.

5.3.1 If the applicable, test method does not specify the number of specimens, use the procedures in Practice D 2905 to determine the number of specimens per laboratory sample unit.

5.3.2 Use a reliable estimate of the variability of individual observations on similar materials in the user’s laboratory, a 95 % probability level, and an allowable difference of 5 % of the average between the test results on laboratory sampling units and the average for the laboratory sampling unit.

5.3.3 The average for a laboratory sampling unit is the average that would be obtained by applying the test method to all of the potential specimens from the laboratory sampling unit.

TABLE 1 Specification Requirements

Characteristics	Requirements		Section
	Woven Bedspread	Knitted/Flocked Bedspread	
Breaking Force (CRT) Type Machine—Each Direction ^A	111 N (25 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 and Drycleaning			
—Each Direction			
Tailored Type	3.5 % Max	5.0 % Max	
Throw Type	5.0 % 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			7.1.6
Woven/Knitted	3.0 % Max	3.0 % Max	
Pattern Print	Acceptable	Acceptable	
Colorfastness to: ^B			
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)			7.1.7.4
Xenon-Arc ^A	Step 4 Min ^C	Step 4 Min ^C	
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	Class 1	Class 1	7.1.7.6
Refurbishing	Acceptable	Acceptable	7.2.1
Appearance (Product)			

^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.

6. Specification Requirements

6.1 The properties of institutional and household bedspread products shall conform to the specification requirements in Table 1 or by mutual agreement between the purchaser and the supplier.

7. Test Methods

7.1 *Fabric*—The physical and colorfastness properties of the fabrics in the woven, knitted and flocked bedspread products shall be evaluated as directed as follows:

7.1.1 *Breaking Force*—Determine the breaking force as directed in Test Method D 5034, using a constant-rate-of-traverse CRT-type tensile testing machine with the speed of the pulling jaw at 300 ± 10 mm/min (12.0 ± 0.5 in/min).

NOTE 2—If preferred, a constant-rate-of, extension CRE-type testing machine may be used. The crosshead speed should be the same speed as for the (CRT) or as agreed upon between the purchaser and the supplier. There may be no overall correlation between the results obtained with the CRT-type machine and with the CRE-type machine. Consequently, these two breaking force testers cannot be used interchangeably. In case of controversy, use of the CRT-type machine shall prevail.

7.1.2 *Bursting Strength*—Determine the bursting strength of knit fabrics as directed in Test Method D 3786 or Test Method D 3787 as agreed upon between the purchaser and the supplier.

NOTE 3—There is no overall correlation between the results obtained with the CRT-type machine equipped with a bursting attachment and the diaphragm bursting tester. Consequently, these two bursting testers cannot be used interchangeably. In the case of controversy, the motor-driven tester in Test Method D 3786 shall prevail.

NOTE 4—The precision of the bursting strength testers has not been established. The methods are accordingly not recommended for acceptance testing unless preceded by an interlaboratory check in the laboratories of the purchaser and supplier, using randomized replicate specimens of the material to be evaluated.

7.1.3 *Pilling*—Determine pilling as directed in Test Method D 3512 with a test time (run time) of 30 min.

7.1.4 *Dimensional Change*—Determine the maximum dimensional change after refurbishing five times following permanently attached care label instructions or as directed in AATCC Test Method 135 for household use, AATCC Test Method 158 for drycleaning, or AATCC Test Method 96 for institutional use or as agreed upon between the purchaser and the supplier.

7.1.4.1 If there is no attached care label, the refurbishing conditions shall be as specified by the supplier when using AATCC Test Method 135 for household products, AATCC Test Method 158 for drycleaning, or AATCC Test Method 96 for institutional products.

7.1.4.2 When chlorine bleach is to be used, introduce one cup of any liquid chlorine household bleach containing 5.25 % sodium-hypochlorite (5.0 % available chlorine) into the washer in the manner directed on the bleach container.

7.1.4.3 When non-chlorine bleach is to be used, introduce it into the washer in the amount and manner directed on the container.

7.1.5 *Appearance*—Determine the smoothness appearance of the fabrics after five launderings as directed in AATCC Test Method 124 unless otherwise agreed upon between the purchaser and the supplier.

7.1.6 *Bow and Skewness*—Before and after refurbishing determine the bow and skewness of the bedspread fabrics or products as directed in Test Method D 3882 with tolerances as stated in Table 1 or as agreed upon between the purchaser and supplier.

7.1.7 *Colorfastness*:

7.1.7.1 *Laundering*—Determine the colorfastness to laundering as directed in AATCC Test Method 61 unless otherwise agreed upon between the purchaser and the supplier.

7.1.7.2 *Drycleaning*—For drycleanable fabrics determine the colorfastness to drycleaning as directed in AATCC Test Method 132.

7.1.7.3 *Crocking*—Determine the colorfastness to dry and wet crocking as directed in AATCC Test Method 8 for solid shades and AATCC Test Method 116 for prints or as agreed upon between the purchaser and the supplier.

7.1.7.4 *Light*—Determine the colorfastness to light as directed in AATCC Test Method 16, Option A or E.

NOTE 5—There is a distinct difference in spectral distribution between the xenon fading lamp apparatus and the enclosed carbon-arc (not sunshine-carbon arc). Consequently, these two fading apparatus cannot be used interchangeably because there is no known overall correlation between them. In case of controversy, AATCC Test Method 16, Option E, shall prevail.

7.1.7.5 *Perspiration*—Determine the colorfastness to perspiration as directed in AATCC Test Method 15.

7.1.7.6 *Flammability*—The flammability requirements shall be as agreed upon between the purchaser and the supplier, except when regulated by applicable government mandatory standards. If flammability is to be tested, Test Method D 1230 can be used as the method of evaluation; test only as received and not refurbished.

7.2 *Product*:

7.2.1 *Appearance*—Before and after refurbishing, evaluate the appearance of fabric and all component parts, such as seams and trim. Mount and evaluate as directed in Section 7 of AATCC Test Method 143 using appropriate standards as described in AATCC Test Method 88B and 124. Acceptance performance requirements shall be as agreed upon between the purchaser and the supplier.

8. Conformance

8.1 When the purchaser and supplier have agreed upon specific requirements for the characteristics that are to be considered, bedspread products that fail to meet those requirements may be rejected. Rejection should be reported to the supplier in writing. In case of disagreement with the results of the test, the supplier may make claim for a retest.

9. Keywords

9.1 bedspread products; performance specification

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