



Designation: D3562 – 22

Standard Performance Specification for Woven Drycleanable Coat Fabrics¹

This standard is issued under the fixed designation D3562; 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 woven drycleanable topcoats, overcoats, and dress coat outer fabrics composed of any textile fiber or mixture of textile fibers.

1.2 This performance specification is not applicable to woven fabrics used for linings, interlinings, rainwear garments, and all-purpose, water-repellent garments nor is this performance specification applicable to bonded or laminated fabrics.

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

1.4 When a fabric requires special treatment, specific methods will be described as they are developed for that material, and such special tests will have precedence over these general requirements.

1.5 The following precautionary caveat pertains only to the test method portion, Section 7, of 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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.6 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 *ASTM Standards:*²

D123 Terminology Relating to Textiles

D434 Test Method for Resistance to Slippage of Yarns in

Woven Fabrics Using a Standard Seam (Withdrawn 2003)³

D1424 Test Method for Tearing Strength of Fabrics by Falling-Pendulum (Elmendorf-Type) Apparatus

D2262 Test Method for Tearing Strength of Woven Fabrics by the Tongue (Single Rip) Method (Constant-Rate-of-Traverse Tensile Testing Machine) (Withdrawn 1995)³

D2724 Test Method for Bond Strength of Bonded, Fused, and Laminated Apparel Fabrics

D5034 Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)

D7022 Terminology Relating to Apparel (Withdrawn 2022)³

2.2 *AATCC Test Methods:*⁴

TM8 Colorfastness to Crocking: AATCC Crockmeter Method

TM15 Colorfastness to Perspiration

TM16.3 Colorfastness to Light: Xenon-Arc

TM23 Colorfastness to Burnt Gas Fumes

TM116 Colorfastness to Crocking: Rotary Vertical Crockmeter Method

TM124 Appearance of Durable Press Fabrics after Repeated Home Launderings

TM132 Colorfastness to Drycleaning

TM135 Dimensional Changes in Automatic Home Laundering of Durable Press Woven or Knit Fabrics

EP1 Gray Scale for Color Change

EP2 Gray Scale for Staining

EP8 AATCC 9-Step Chromatic Transference Scale

2.3 *Federal Standard:*⁵

16 CFR 1610 Chapter II—Consumer Product Safety Commission, Subchapter D—Flammable Fabrics Act Regulations

2.4 *ASQ Standard:*

ASQ Z1.4 Sampling Procedures and Tables for Inspection by Attributes⁶

¹ 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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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 AATCC Technical Manual, available from American Association of Textile Chemists and Colorists (AATCC), One Davis Dr., P.O. Box 12215, Research Triangle Park, NC 27709-2215.

⁵ Available from U.S. Government Printing Office Superintendent of Documents, 732 N. Capitol St., NW, Mail Stop: SDE, Washington, DC 20401.

⁶ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036.

NOTE 1—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 all terminology related to Apparel, see Terminology **D7022**.

3.1.1 The following terms are relevant to this standard: pressing and finishing.

3.2 For definitions of all other textile terms, see Terminology **D123**.

3.3 For terms relating to chemical or colorfastness testing, refer to specific AATCC test methods or the glossary of AATCC Standard Terminology, or both.

4. Significance and Use

4.1 Upon mutual agreement between the purchaser and the seller, woven fabrics 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 fabrics that do not conform to all of the requirements in **Table 1**; therefore, one or more of the requirements may be modified by mutual agreement between the purchaser and the seller.

4.2.1 In such cases, any references to the specification shall specify that: This fabric meets Performance Specification D3562 except for the following characteristic(s).

4.3 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 **4.2**, ultimate consumer demands dictate varying performance parameters for any particular style of fabric.

4.4 The significance and uses 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 there is prior agreement consider as a lot for acceptance testing all material of a single item received as a single shipment.

5.2 *Lot Sample*—As a lot sample for acceptance testing, take at random the number of rolls as directed in an applicable specification or other agreement between the purchaser and the seller, such as an agreement to use ASQ Z1.4.

5.3 *Laboratory Sample*—From each roll or piece in the lot sample, cut two laboratory samples the full width of the fabric and at least 375 mm (15 in.) along the selvage.

5.4 *Test Specimens*—Take the number of specimens directed in each of the applicable test methods. Perform the tests on the fabric as it will reach the consumer. Any “partially-finished” or “post-finished” fabrics should be processed in accordance with the fabric manufacturer’s instructions.

5.5 If the applicable test method does not specify per laboratory sampling unit. 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

TABLE 1 Specification Requirements for Woven Drycleanable Coat Fabrics

Characteristic	Requirements		Section
	Men's & Boy's	Women's & Girl's	
Breaking strength (load) (CRT)	133 N (30 lbf), min	133 N (30 lbf), min	7.1
Napped fabrics:			
Length	—	111 N (25 lbf), min	
Width	—	89 N (20 lbf), min	
Resistance to yarn slippage:			7.2
All fabrics, ¼ in. (6 mm) separation	111 N (25 lbf), min	—	
Cross-dyed fabrics,	—	89 N (20 lbf), min	
½ in. (3 mm) separation	—	89 N (20 lbf), min	
Solid shades, ¼ in. (6 mm) separation	—	89 N (20 lbf), min	
Tongue tear strength	13 N (3 lbf), min	13 N (3 lbf), min	7.3
Dimensional change (each direction):			
Pressing	2 % max shrinkage & 0 % growth		7.4.1
After 3 dry cleanings	2 % max shrinkage & 0 % growth		7.4.2
Colorfastness to:			
Burnt gas fumes			
Alteration in shade: 1 cycle each on original & after 1 cleaning	Class 4, min	Grade 4, min	7.5.1
Dry cleaning			7.5.2
Shade change	Grade 4, min	Grade 4, min	
Crocking ^A			7.5.3
Dry	Grade 4, min	Grade 4, min	
Wet	Grade 3.5, min	Grade 3, min	
Perspiration ^A			7.5.4
Shade change	Grade 4, min	Grade 4, min	
Staining	Grade 3.5, min	Grade 3, min	
Light (xenon-arc)			7.5.5
20 AFUs	Grade 4, min	Grade 4, min	
Fabric appearance (see 7.6.1.1)	SA 4, min	See 7.6.1	7.6
Flammability (16 CFR 1610)	Class I	Class I	7.7

^ASee **Note 6**.