



Designation: D7507 – 14

Standard Specification for Woven High Stretch Fabrics Used in Apparel¹

This standard is issued under the fixed designation D7507; 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 reappraisal. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reappraisal.

1. Scope

1.1 This specification covers the performance requirements for woven high stretch fabrics used in apparel.

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*:²

D123 Terminology Relating to Textiles

D2905 Practice for Statements on Number of Specimens for Textiles (Withdrawn 2008)³

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

D3775 Test Method for Warp (End) and Filling (Pick) Count of Woven Fabrics

D3776 Test Methods for Mass Per Unit Area (Weight) of Fabric

2.2 *AATCC Test Methods*:⁴

8 Colorfastness to Crocking: AATCC Crockmeter Method

15 Colorfastness to Perspiration

16 Colorfastness to Light

61 Colorfastness to Laundering, Home and Commercial: Accelerated

81 pH of the Water-Extraction from West Processed Textiles

109 Colorfastness to Ozone in the Atmosphere Under Low Humidity's

116 Colorfastness to Crocking: Rotary Vertical Crockmeter Method

132 Colorfastness to Drycleaning

135 Dimensional Changes of Fabrics after Home Laundering

158 Dimensional Changes on Drycleaning in Perchloroethylene: Machine Method

172 Colorfastness to Non-Chlorine Bleach in Home Laundering

2.3 *Other Documents*:⁵

16 CFR 1610 Standard for Flammability of Clothing Textiles

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 *Definitions*: For definitions of textile terms used in this specification, refer to Terminology D123 and the AATCC Glossary.

3.1.1 *woven high stretch fabric, n*—woven fabrics with greater than 15 % elastic fiber content.

4. Significance and Use

4.1 Upon mutual agreement between the purchaser and the supplier, woven high stretch fabrics used in apparel 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.

4.2.1 In such cases, any references to the specifications should specify that: "This product meets ASTM specifications XXXX except for the following characteristic(s)."

4.3 Where no pre-purchase agreement has been reached between the purchaser and supplier, and in case of controversy, the requirements listed in Table 1 are intended to be used as a

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

⁵ Available from Superintendent of Documents, Government Printing Office, Washington, DC 20402.