



Designation: D7507 – 23

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 reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.3 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 (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D2905 Practice for Statements on Number of Specimens for Textiles (Withdrawn 2008)³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 End (Warp) and Pick (Filling) Count of Woven Fabrics

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

D7022 Terminology Relating to Apparel (Withdrawn 2022)³

2.2 AATCC Test Methods:⁴

TM8 Colorfastness to Crocking: AATCC Crockmeter

TM15 Colorfastness to Perspiration

TM16.3 Colorfastness to Light: Xenon-Arc

TM61 Colorfastness to Laundering: Accelerated

TM81 pH of the Water-Extraction from West Processed Textiles

TM109 Colorfastness to Ozone in the Atmosphere under Low Humidity's

TM116 Colorfastness to Crocking: Rotary Vertical Crockmeter

TM132 Colorfastness to Drycleaning

TM135 Dimensional Changes of Fabrics after Home Laundering

TM158 Dimensional Changes on Drycleaning in Perchloroethylene: Machine

TM172 Colorfastness to Powdered Non-Chlorine Bleach in Home Laundering

EP1 Gray Scale for Color Change

EP2 Gray Scale for Staining

EP8 AATCC 9-Step Chromatic Transference Scale

M11 A Glossary of AATCC Standard Terminology

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 For all terminology related to Apparel see Terminology **D7022**.

3.1.1 The following terms are relevant to this standard: woven high stretch fabric.

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.