



Designation: D6603 – 19

Standard Specification for Labeling of UV-Protective Textiles¹

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1. Scope

1.1 This standard describes labeling requirements for textile products intended for the protection of humans from UVA and UVB radiation.

1.2 This standard is not intended to be used for the labeling of medical-device sun protective fabrics and clothing whose labeling is specified in the U.S. Food and Drug Administration's Draft Guidance for the Preparation of a Premarket Notification document.

1.3 The label requirements are in addition to those required by the Care Labeling Rule and fiber content (composition) labeling acts (Wool Products Labeling Act of 1939, and The Textile Fiber Products Identification Act).

1.4 This document contains terminology to be used in the labeling of UV-protective textiles.

1.5 Labeling recommended in this specification will be based on UV-protection data collected by instrumental methods.

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

D3938 Guide for Determining or Confirming Care Instructions for Apparel and Other Textile Products

D6544 Practice for Preparation of Textiles Prior to Ultraviolet (UV) Transmission Testing

2.2 AATCC Standards:³

AATCC LP1 Home Laundering: Washing Machine

AATCC LP2 Home Laundering: Hand Washing

AATCC TM16.3 Colorfastness to Light: Xenon Arc

AATCC TM162 Colorfastness to Water: Chlorinated Pool

AATCC TM172 Colorfastness to Powdered Non-chlorine Bleach in Home Laundering

AATCC TM183 Transmittance or Blocking of Erythemally Weighted Ultraviolet Radiation through Fabrics

AATCC TM188 Colorfastness to Sodium Hypochlorite Bleach in Home Laundering

2.3 Other Standards:

15 U.S.C., Chapter 2, Subchapter V, The Textile Fiber Products Identification Act⁴

15 U.S.C., Chapter 2, Subchapter III, et. seq., Wool Products Labeling Act of 1939⁴

16 C.F.R. Part 303, Rules and Regulations Under the Textile Fiber Products Identification Act⁴

16 C.F.R. Part 300, Rules and Regulations Under the Wool Products Identification Act⁴

16 C.F.R. Part 423, Care Labeling of Wearing Apparel and Certain Piece Goods⁴

AS/NZS 4399: 1996, Australian/New Zealand Standard Sun Protective Clothing – Evaluation and Classification⁴

FDA Office of Device Evaluation, Draft Guidance for the Preparation of a Premarket Notification (510(K)) Submission for Sun Protective Clothing, August 10, 1994⁵

3. Terminology

3.1 For definitions of terms relating to UV-protective textiles refer to Terminology D123.

3.2 The following terms are relevant to this standard: *UV-protective textile*, *ultraviolet protection factor (UPF)*, and *UV-protection categories*.

¹ This specification is under the jurisdiction of ASTM Committee D13 on Textiles and is the direct responsibility of Subcommittee D13.65 on UV Protective Fabrics and Clothing.

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

⁴ Available from U.S. Government Printing Office Superintendent of Documents, 732 N. Capitol St., NW, Mail Stop: SDE, Washington, DC 20401, <http://www.access.gpo.gov>.

⁵ Available from Standards Australia, 1 the Crescent, Homebush NSW 2140 Australia and Standards New Zealand, Level 10, Standards House, 155 The Terrace, Wellington 0001, New Zealand.