



Standard Guide for Determining or Confirming Care Instructions for Apparel and Other Textile Products¹

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1. Scope

1.1 This guide may be used to determine and confirm the appropriate care label instructions for apparel, piece goods, and other textile products excluding textile floor coverings and upholstery.

1.2 This guide encompasses the following care procedures: home laundering, professional textile care, and other alternative cleaning methods.

1.3 This guide includes provision for evaluating the complete textile product and the product components.

1.4 This guide covers the performance characteristics as a result of refurbishing that are important in determining the acceptability of a textile product.

1.5 This guide is appropriate for the evaluation of all garments and household textiles that are sold with care labels.

1.5.1 This guide may also be used in connection with the evaluation of similar materials that do not have a care label.

1.6 *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:*²

[D123 Terminology Relating to Textiles](#)

[D3136 Terminology Relating to Care Labeling for Apparel, Textile, Home Furnishing, and Leather Products](#)

2.2 *AATCC Methods:*

[Technical Manual of the American Association of Textile Chemists and Colorists](#)

[Method 188 Colorfastness to Sodium Hypochlorite Bleach in Home Laundering](#)³

2.3 *Other Standards:*

[Federal Trade Commission Trade Regulation Rule. Care Labeling of Textile Wearing Apparel and Certain Piece Goods. Effective July 3, 1972, As Amended January 2, 1984 \(cited as 16 CFR 423\)](#)⁴

[The National Standard of Canada—Care Labeling of Textiles \(CAN/CSGB-86.1-M91\)](#)⁵

3. Terminology

3.1 For all terminology relating to D13.61, Apparel, , refer to Terminology [D3136](#).

3.1.1 The following terms are relevant to this standard: care instructions, main components.

3.2 For all other terms are related to textiles, refer to Terminology [D123](#).

3.3 *Definitions:*

3.3.1 For definitions of other textile terms used in this guide, refer to Terminology [D123](#). For definitions of terms related to care instructions, refer to Terminology [D3136](#).

4. Significance and Use

4.1 This is a guide to help a manufacturer distributor, or importer establish a reasonable basis for care information.

4.2 The manufacturer, distributor, or importer should possess, prior to sale, reliable evidence that the product was not harmed when refurbished reasonably often according to the instructions. Additionally they should possess reliable evidence that the product or a fair sample of the product would be harmed when refurbished by methods warned against on the label.

4.3 This guide is intended for general use by those who wish to determine whether apparel or other textile products will

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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, P.O. Box 12215, Research Triangle Park, NC 27709. <http://www.aatcc.org>.

⁴ Available from Federal Trade Commission, 600 Pennsylvania Avenue, N.W., Washington, DC 20580. <http://www.ftc.gov>.

⁵ Available from Canadian Government Publishing Centre, Supply and Services Canada, Publication Section, Hull (Quebec) K1A 0S9.

perform in an acceptable manner when the care instructions on the label are followed.

4.4 Refurbished products are evaluated against previously selected product performance specifications to determine whether the products can be refurbished successfully by following the instructions on the care label.

5. Summary of Guide

5.1 This guide describes general procedures for determining and confirming instructions on a care label for a textile product.

5.2 General procedures include setting minimum or maximum performance specifications for the product, selecting appropriate standards and test methods to match the care label instructions, conducting the testing and evaluation process, and writing the report.

5.3 The products are evaluated for change in dimension, hand, appearance, or other performance characteristics as a result of refurbishing.

6. General Considerations

6.1 Care instructions can be determined by testing the component parts or by testing the completed textile product or both if necessary.

6.1.1 When confirming the care label the testing shall be done on the completed textile product.

6.2 The test methods and evaluation processes selected to represent the washing, bleaching, drying, ironing, and dry-cleaning care label instructions shall simulate at least 3 complete refurbishing cycles.

6.2.1 The actual number of complete refurbishing cycles shall be agreed upon by the purchaser and the supplier.

6.2.2 One complete refurbishing cycle includes either (1) laundering including washing and drying, and, if appropriate, bleaching and/or ironing; (2) drycleaning and pressing; or, (3) wet cleaning and restorative treatment.

6.3 Test results that meet or exceed the preset specifications for performance characteristic confirm the selection of the suitable care label instructions.

7. Product Characteristics for Evaluation as a Result of Refurbishing

7.1 *Change in Dimensions:*

7.1.1 Shrinkage.

7.1.2 Growth.

7.1.3 Distortion caused by uneven growth or shrinkage.

7.1.4 Distortion caused by incompatible shrinkage of components including basic fabrics and items such as zippers, linings, interfacings, interlinings, sewing thread, waist bands, pockets, seam bindings or tape, textile trim, nontextile trim, and labels.

7.2 *Change in Hand:*

7.2.1 Changes in the physical properties related to the hand of fabrics listed in Annex A3 of Terminology **D123**.

7.3 *Change in Appearance:*

7.3.1 Loss or change of color.

7.3.2 Staining or self-staining, that is transference, or running of original color from one product to another or from one area to another area on the same product.

7.3.3 Distortion and loss or change in surface appearance or structure (such as, pilling, fuzzing, snagging, or matting; or loss of nap, flocking, embossing, or fabric smoothness; or other effects).

7.3.4 Change in appearance caused by incompatibility of components resulting in defects such as puckering of seams.

7.3.5 Change in appearance caused by ineffectiveness of recommended cleaning procedure, such that the textile product is no longer wearable or acceptable. Stain removal is not to be considered in this context.

7.4 *Change in Performance:*

7.4.1 Loss of claimed functional properties (stated or implied) such as durable press, water repellency, anti-static, flame-resistant, or soil release.

7.4.2 Loss of performance of construction or design caused by sewing (such as, needle cutting, feed-dog abrasion, raveling of seams, removal of appliques and trim, and malfunction of closures or other hardware).

7.4.3 Failure of textile structure resulting from laundering or dry cleaning (for example, delamination).

8. Selection of Performance Specifications and Test Methods

8.1 If the textile product to be evaluated has no care label, determine a set of care instructions suitable for the item.

8.1.1 On making the final determination consider factors such as fiber content, fabric construction, item construction, findings, color and finish applications, and end use.

8.2 If the textile product to be evaluated has an attached care label, then confirm the care by using the designated instructions on the label.

8.3 Select from the product characteristics listed in Section 7 those specific properties that are to be evaluated for the samples to be tested.

8.3.1 The specific properties are not limited to those examples listed, but may include all items which are agreed upon between the purchaser and supplier.

8.3.2 Select the performance specification level for each product characteristic to be evaluated.

8.4 Select test methods that are comparable with the care instructions to serve as the basis for evaluation of acceptable performance for the care label.

8.4.1 The test procedures must be at least as severe as the conditions specified in the care label instruction.

8.5 **Tables 1 and 2** list some of the common performance specifications and test methods.

8.5.1 Performance specifications and some test methods are found in the current editions of the *Annual Book of ASTM Standards, Vols 07.01 and 07.02*.

8.5.2 Some test methods are found in the current edition of the *Technical Manual of the American Association of Textile Chemists and Colorists*.

TABLE 1 Some ASTM Performance Specifications and Practices for Fabrics and Textile Products^A

D4847	Awning and Canopy Fabrics, Woven
D4154	Beachwear and Sport Shirt Fabrics, Knitted and Woven, Men's and Boys'
D4037	Bedspread Fabrics, Woven, Knitted, or Flocked
D4235	Blouse and Dress Fabrics, Knitted, Women's and Girls'
D4232	Career Apparel Fabrics, Dress and Vocational, Men's and Women's
D3995	Career Apparel Fabrics, Knitted, Dress and Vocational, Men's and Women's
D3600	Coat Fabrics, Woven Rainwear and All-Purpose, Water-Repellent, Men's and Boys' (Discontinued 1988†—Replaced by Specification D3779)
D4116	Corset-Girdle Combination Fabrics, Knitted and Woven, Women's and Girls'
D4109	Coverall, Dungaree, Overall, and Shop Coat Fabrics, Woven, Men's and Boys'
D4118	Coverall, Dungaree, Overall and Shop Coat Fabrics, Woven, Women's
D4115	Dress Glove Fabrics, Knitted and Woven, Women's and Girls'
D3477	Dress Shirt Fabrics, Woven, Men's and Boys'
D4119	Dress Shirt Fabrics, Knitted, Men's and Boys'
D3782	Dress Suit Fabrics and Sportswear Jacket, Slack, and Trouser Fabrics, Knitted, Men's and Boys'
D3780	Dress Suit Fabrics and Sportswear Jacket, Slack, and Trouser Fabrics, Woven, Men's and Boys'
D3562	Dress Topcoat and Dress Overcoat Fabrics, Woven, Men's and Boy's
D4522	Feather-Filled and Down-Filled Products
D3783	Flat Lining Fabrics, Woven, for Men's and Boys' Apparel
D4114	Flat Lining Fabrics, Woven, for Women's and Girls' Apparel
D4153	Handkerchief Fabrics, Woven, Men's, Women's, and Children's
D3691	Household Curtain and Drapery Fabrics, Woven, Lace, and Knit
D4111	Household and Institutional, Napery and Tablecloth Fabrics, Woven
D4035	Necktie and Scarf Fabrics, Knitted
D3785	Necktie and Scarf Fabrics, Woven
D3655	Overcoat and Jacket Fabrics, Sliver Knitted, Men's and Women's
D3692	Selection of Zippers for Care-Labeled Apparel and Household Furnishings
D4113	Slipcover Fabrics, Woven
D4156	Sportswear Fabrics, Knitted, Women's and Girls'
D4155	Sportswear, Shorts, Slacks, and Suiting Fabrics, Woven, Women's and Girls'
D3782	Sportswear Jacket, Slack, and Trouser Fabrics, Dress Suit Fabrics, Knitted, Men's and Boys'
D3996	Swimwear Fabrics, Knit, Men's, Women's, and Children's
D3994	Swimwear Fabrics, Woven
D4112	Umbrella Fabrics, Woven
D3690	Upholstery Fabrics, Indoor, Vinyl-Coated and Urethane-Coated
D4771	Upholstery Fabrics, Knitted, for Indoor Use
D3597	Upholstery Fabrics, Woven—Plain, Tufted, or Flocked
D3657	Zipper Dimensions
D4465	Zippers for Denim Dungarees

^AFor a current and complete list, refer to the current editions of the *Annual Book of ASTM Standards, Vols 07.01 and 07.02.*

8.6 Subject the product to a minimum of 3 refurbishing cycles.

8.6.1 The actual number of complete refurbishing cycles shall be agreed upon between the purchaser and seller.

8.7 The apparatus and materials used in this guide are those specified in the standards and test methods.

8.8 Sampling and conditioning methods used in this guide are those specified in the test methods.

8.9 Where less common care instructions, for example, “wipe with a damp cloth,” are to be used, an appropriate care practice shall be used to evaluate the product.

9. Evaluation

9.1 Make all evaluations on the refurbished product.

9.2 Evaluate the performance of each refurbished sample with respect to each of the previously designated characteristics.

9.3 Performance standards should be agreed upon by the purchaser and supplier or the end-use standards of ASTM Committee D13 shall be used.

9.4 The levels of performance under the applicable care label instructions shall meet or exceed those stated in the appropriate ASTM performance specifications or industry standards.

9.4.1 These standards shall be determined by the purchaser and supplier. It is the responsibility of the manufacturer to meet these standards.

9.5 The test results shall be compared with the appropriate performance specifications.

10. Evaluation Form

10.1 The worksheet for recording the evaluation of the product must be simple enough for a technician to use with ease and with full understanding.

10.2 The worksheet shall make provision for inclusion of all characteristics of the product that are important to the consumer, purchaser, or supplier; including but not limited to those listed in Section 7 of this guide.

10.3 The form shall show the performance requirements for the predetermined properties decided upon by those using this guide.

10.4 When completed, the form shall show the evaluation assigned to each performance characteristic for each sample.

11. Conformance

11.1 If any sample fails to show an acceptable performance with respect to any of the previously designated characteristics, it shall be deemed unsatisfactory.

TABLE 2 Some Standards and Test Methods Used to Determine or Confirm Care Label Instructions on a Textile Product

WASHING AND DRYING	
ASTM D2057	Test Method for Colorfastness of Zippers to Laundering
ASTM D2051	Test Method for Durability of Finish of Zippers to Laundering
ASTM D1683	Test Method for Failure in Sewn Seams of Woven Fabrics
ASTM D4685	Test Method for Pile Retention of Corduroy Fabrics
AATCC 143	Appearance of Apparel and Other Textile End Products after Repeated Home Laundering
AATCC 124	Appearance of Durable Press Fabrics after Repeated Home Laundering
AATCC 142	Appearance of Flocked Fabrics After Repeated Home Launderings and/or Coin-Op Drycleaning
AATCC 61	Colorfastness to Laundering, Home, and Commercial: Accelerated
AATCC 135	Dimensional Changes in Automatic Home Laundering of Woven and Knit Fabrics
AATCC 96	Dimensional Changes in Commercial Laundering of Woven and Knitted Textile Fabrics Except Wool
BLEACHING	
AATCC 3	Colorfastness to Bleaching with Chlorine
AATCC 101	Colorfastness to Bleaching with Peroxide
AATCC 172	Colorfastness to Non-Chlorine Bleach in Home Laundering
AATCC 188	Colorfastness to Sodium Hypochlorite Bleach in Home Laundering
IRONING	
AATCC 88C	Appearance of Creases in Durable Press Items After Home Laundering
AATCC 88B	Appearance of Seams in Durable Press Items After Home Laundering
AATCC 128	Wrinkle Recovery of Fabrics: Appearance Method
AATCC 66	Wrinkle Recovery of Fabrics: Recovery Angle Method
DRYCLEANING	
AATCC 132	Colorfastness to Drycleaning
AATCC 158	Dimensional Changes on Drycleaning in Perchloroethylene: Machine Method
ASTM D2052	Test Method for Colorfastness of Zippers to Drycleaning
ASTM D2058	Test Method for Durability of Finish of Zippers to Drycleaning
ASTM D2721	Test Method for Effects of Drycleaning on Permanence of Durable Water-Repellent Finish (Discontinued 1989)
ASTM D2724	Test Methods for Bonded, Fused, and Laminated Apparel Fabrics

^A For a current and complete list, refer to the current editions of the *Annual Book of ASTM Standards, Vols 07.01 and 07.02* and the *Technical Manual of the American Association of Textile Chemists and Colorists*

11.2 The overall appearance of the sample should be considered as well as the individual characteristics.

11.3 If the item fails to meet specified levels of performance, the care label instructions or the merchandise shall be changed to meet the specified level of performance and the care label instructions reconfirmed.

11.3.1 When the purchaser and supplier have agreed upon specific requirements for the characteristics that are to be considered, apparel and other textile products that fail to meet

these requirements may be rejected. Rejection should be reported to the supplier in writing. In case of disagreement with results of the test, the seller may request for a retest.

12. Report

12.1 State that the items were tested as directed in the test methods used. Describe the textile product tested.

12.2 Report the following information:

12.2.1 Objective of the testing.

12.2.2 Description and identification of product(s).

12.2.3 Each preset product characteristic performance specification.

12.2.4 Each standard/test method used to evaluate each refurbishing process.

12.2.5 Method of sampling.

12.2.6 Number of specimens tested.

12.2.7 Additional details as specified in the individual test method sections on reporting.

12.2.8 Results and conformance to preset performance characteristics.

12.2.9 Specifics of any departures from a standard test method agreed upon by the purchaser and seller.

12.2.10 Conclusion, if appropriate.

13. Preparation of Care Label Instructions

13.1 Care label instructions for the United States shall conform to the standard terms and labeling practices described in the Federal Trade Commission Trade Regulation Rule, *Care Labeling of Textile Wearing Apparel and Certain Piece Goods*. Care label instructions using symbols for the United States shall conform to the Rule and ASTM D5489-1996c.

13.2 Care label instructions using symbols for Canada shall conform to the standard symbols and labeling practices described in the *National Standard of Canada—Care Labeling of Textiles*.

13.3 Care label instructions for other countries shall conform to the labeling practices of that country.

13.4 Additional information on terminology is provided in Terminologies [D3136](#) and [D123](#).

14. Precision and Bias

14.1 The precision and bias statements of the referenced test methods shall be used.

15. Keywords

15.1 apparel; care instructions; care label; drycleaning ; home laundering; laundering; textile products

APPENDIX

(Nonmandatory Information)

X1. RATIONALE

X1.1 In 1971, the Federal Trade Commission published a Trade Regulation Rule which required apparel manufacturers to place care labels on apparel products. The revised Rule became effective January 2, 1984 and includes a requirement that there should be a “reasonable basis” for knowing that the

care instruction would not “impair the use or enjoyment” of the product. This standard is a guide which may be used by manufacturers, importers, distributors, and/or retailers to verify that a designated care instruction is suitable or determine one which will be.

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