



# AATCC MANUAL OF INTERNATIONAL TEST METHODS AND PROCEDURES

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# Navigation Tips

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# Preface

THE standards in this volume of the *Manual of International Test Methods and Procedures* were current as of July 2021. New standards that have been added and other important changes made since the last volume are summarized on page 18.

AATCC standards are developed by research committees through extensive investigations and interlaboratory comparisons, often covering several years of work. Simplicity, reproducibility, applicability, cost of performing the test and the time required to perform the test are all important considerations in each development.

Before a standard is published in the *Manual of International Test Methods and Procedures*, it must be approved by the responsible research committee and the Technical Committee on Research (TCR).

During the first three years of publication, each new standard is reviewed annually, at which time, on recommendation of the research committee and approval by TCR, it may be reaffirmed, revised or withdrawn. After the first three years, each standard is reviewed at least once every five years by the research committee, and following approval by TCR, may be reaffirmed, revised or withdrawn. The record of these actions is published in an activity history at the beginning or end of each standard.

An important feature of all AATCC test methods is that test results are numerically quantified. Methods do not include pass/fail criteria for materials or processes. AATCC policy prohibits endorsement of such specifications, requirements, or acceptance criteria. These must be agreed upon by the interested parties.

Each standard is designated by AATCC, then the letters TM, LP, EP, or M as appropriate, a number (no space), a dash, and the four-digit year of the latest revision. Additional technical changes within the same year are signified by a small “t” following the year. Reaffirmations—with no changes—are signified by a year in parentheses following the year of latest revision. Editorial changes are signified by a small “e” following the year. The designation should be quoted in full in referring to a standard, as for example, TM90-2011(2016)e.

AATCC M12-2020, Style Guide for Writing Test Methods and Procedures (page 521) is the defining document used by research committees in writing these methods. M13-2017e, Rules of Procedure for AATCC Test Method and Technology Committees (page 528) is the defining document for the

organization and functioning of these research committees.

Prior to 1969, the *Manual of International Test Methods and Procedures* also contained the Buyer’s Guide and the AATCC Membership Directory, now both available online. The general content of the *Manual of International Test Methods and Procedures* has continued unchanged since 1969.

Major changes in layout of the *Manual of International Test Methods and Procedures* were made in 1985 as follows: (1) indexes were grouped at the front of the book; (2) test methods were arranged in numerical order; (3) A Glossary of AATCC Standard Terminology was added and (4) the AATCC Style Guide for Writing Test Methods and Procedures was added.

In 1989, evaluation procedures were listed immediately after the test methods.

In 2012, monographs were given number designations and were included as a separate item in the numerical and topical indexes for easy access.

In 2019, laboratory procedures were listed between test methods and evaluation procedures. The glossary and style guide were numbered as monographs.

In 2020, the official designations and titles for all standards were updated.

In 2021, new, revised, reaffirmed, editorially revised, and editorially revised and reaffirmed methods were aligned to the AATCC style guidelines. The official title was changed from *Technical Manual of the American Association of Textile Chemists and Colorists* to the *American Association of Textile Chemists and Colorists Manual of International Test Methods and Procedures*.

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# Numerical List of Current AATCC Standards

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TM16F-1988	Colorfastness to Light: Water-Cooled Xenon-Arc Lamp, Alternate Light and Darkness. Superseded by TM16.
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TM18-1967	Water Resistance: Hydrostatic Pressure Test. Superseded by AATCC TM127.
TM19-1937	Mercerization of Cotton, Determination of; Degree of. Superseded by AATCC TM89.
TM21-1983	Water Repellency: Static Absorption Test.
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TM59-1952	Colorfastness to Peroxide Bleaching (Wool). Superseded by AATCC TM13.
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TM62-1989	Oils, Wool; Oxidation in Storage.
TM63-1961	Colorfastness to Water: Distilled or Demineralized; Sea, and Chlorinated Pool. Superseded by Methods 105, 106, 107.
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TM65-1984	Snag Resistance of Women's Nylon Hosiery.
TM67-1957	Wrinkle Recovery of Fabrics: Roller Pressure Crease-Recovery Method.
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TM69-1958	Damage Caused by Retained Chlorine. Superseded by AATCC TM92.
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TM74-1953	Relaxation and Felting Shrinkage of Wool Knit Fabrics (Except Hose): Accelerated Test. Superseded by AATCC TM99.
TM75-1971	Colorfastness to Oxides of Nitrogen in the Atmosphere: Rapid Control Test.

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TM80-1954	Determining the Noncotton Content of Bleached Woven Cotton Cloth. Superseded by AATCC TM97.
TM83-1974	Colorfastness to Light and Washing: Alternate Exposure.
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TM87-1965	Colorfastness to Washing, Industrial Laundering: Accelerated.
TM88-1961	Appearance of Wash and Wear Fabrics after Home Laundering. Superseded by AATCC TM88A.
TM88A-1964	Appearance of Fabrics in Wash and Wear Items after Home Laundering. Superseded by AATCC TM124.
TM90-1982	Antibacterial Activity of Fabrics, Detection of: Agar Plate Method. Superseded by Reactivated/Revised AATCC TM90-2016.
TM91-1958	Dimensional Changes in Woven Textiles (Excluding Wool). Superseded by AATCC TM96.
TM95-1959	Dimensional Restorability of Woven Textiles after Laundering. Superseded by AATCC TM96.
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TM126-1991	Colorfastness to Water (High Humidity) and Light: Alternate Exposure.
TM136-2013	Bond Strength of Bonded and Laminated Fabrics
TM139-2005	Colorfastness to Light: Detection of Photochromism.
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TM148-1989	Light Blocking Effect of Curtain Materials. Superseded by Reactivated/Revised AATCC TM148-2014 with new title.
TM151-2003	Soil Redeposition: Launder-Ometer Method.
TM152-1990	Soil Redeposition, Resistance to: Terg-O-Tometer Method.
TM153-1985	Color Measurement of Textiles: Instrumental. Superseded by AATCC EP6.
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TM173-2009	Test Method for Calculation of Small Color Differences for Acceptability
TM177-2000	Colorfastness to Light at Elevated Temperature and Humidity: Xenon Lamp Apparatus.
TM178-2004	Barré: Visual Assessment and Grading. Superseded by M10.
TM180-1997	Colorfastness to Light at High Temperatures: Daylight Temperature Controlled Apparatus.
TM181-2005	Colorfastness to Light at High Temperatures: Daylight Temperature and Humidity Controlled Apparatus.

## **Evaluation Procedures**

<b>Procedure</b>	<b>Title</b>
EP3-1996	AATCC 5-Step Chromatic Transference Scale.
EP4-2011	Standard Depth Scales for Depth Determination.

## **Monographs**

<b>Monograph</b>	<b>Title</b>
M2-2005	2003 Standard AATCC Standard Reference Liquid Laundry Detergent. Superseded by M1.
M5-2007	Standardization of Hand Laundering for Fabrics and Apparel. Superseded by LP2.
M6-2016	Standardization of Home Laundry Test Conditions. Superseded by LP1.
M7-1991	Standard Laboratory Practice for Home Laundering Fabrics Prior to Flammability Testing to Differentiate Between Durable and Non-Durable Finishes
M8-1992	Nomenclature for Subjective Rating Processes.

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