



Designation: ~~D4494 – 95 (Reapproved 2010)~~<sup>ε1</sup> D4494 – 95 (Reapproved 2015)

## Standard Test Method for Detecting Residual Odor of Drycleaning Grade Perchloroethylene<sup>1</sup>

This standard is issued under the fixed designation D4494; 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 ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

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<sup>ε1</sup> NOTE—The units statement, 1.2 was added in March 2010.

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### 1. Scope

- 1.1 This test method covers the detection of a residual odor in drycleaning-grade perchloroethylene.
- 1.2 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.
- 1.3 *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.* Specific precautionary statements are given in Section 7.

### 2. Referenced Documents

- 2.1 *ASTM Standards*:<sup>2</sup>  
[D3844 Guide for Labeling Chlorinated Hydrocarbon Solvent Containers](#) (Withdrawn 2013)<sup>3</sup>

### 3. Summary of Test Method

3.1 A swatch of conditioned cotton fabric is treated by soaking in drycleaning perchloroethylene, then drained, dried, and steamed. The odor is compared with an untreated swatch. The treated swatch should be no different from the untreated.

### 4. Significance and Use

4.1 Normally clothes cleaned with perchloroethylene will have a clean cloth odor. If a foreign odor is present, it may be objectionable.

### 5. Apparatus

- 5.1 *Two-Glass Beakers*, 1 L.
- 5.2 *Oven*, forced convection model.

### 6. Material

6.1 De-sized and bleached cotton fabric weighing from 120 to 135 g/m<sup>2</sup> (3.6 to 4.0 oz/yd<sup>2</sup>). The fabric shall be clean, dry, and free from foreign odor.

### 7. Safe Handling Precautions

7.1 Handle perchloroethylene only in a well-ventilated hood for conducting the test. See [Practice Guide D3844](#) for the label information.

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<sup>1</sup> This test method is under the jurisdiction of ASTM Committee D26 on Halogenated Organic Solvents and Fire Extinguishing Agents and is the direct responsibility of Subcommittee D26.04 on Test Methods.

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<sup>2</sup> For referenced ASTM standards, visit the ASTM website, [www.astm.org](http://www.astm.org), or contact ASTM Customer Service at [service@astm.org](mailto:service@astm.org). For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

<sup>3</sup> The last approved version of this historical standard is referenced on [www.astm.org](http://www.astm.org).