



Designation: ~~D1353-03~~ Designation: D 1353 – 09

## Standard Test Method for Nonvolatile Matter in Volatile Solvents for Use in Paint, Varnish, Lacquer, and Related Products<sup>1</sup>

This standard is issued under the fixed designation D 1353; 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.

*This standard has been approved for use by agencies of the Department of Defense.*

### 1. Scope\*

1.1 This test method covers the determination of the nonvolatile matter in volatile solvents for use in paint, varnish, lacquer, and related products.

~~1.2 The following applies to all specified limits in this standard; for purposes of determining conformance with this standard, an observed value or a calculated value shall be rounded off “to the nearest unit” in the last right-hand digit used in expressing the specification limit, in accordance with the rounding-off method of Practice E29.~~

~~1.3 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only.~~

~~1.4~~

1.2 The following applies to all specified limits in this standard; for purposes of determining conformance with this standard, an observed value or a calculated value shall be rounded off “to the nearest unit” in the last right-hand digit used in expressing the specification limit, in accordance with the rounding-off method of Practice E 29.

1.3 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.

1.4 For hazard information and guidance, see the supplier’s Material Safety Data Sheet for materials listed in this test method.

1.5 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. For specific hazard statements, see Section 5.

~~1.5 For hazard information and guidance, see the supplier’s Material Safety Data Sheet for materials listed in this test method.~~

### 2. Referenced Documents

2.1 *ASTM Standards:*<sup>2</sup>

E 29 [Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications](#)

E 180 [Practice for Determining the Precision Data of ASTM Methods for Analysis and Testing of Industrial and Specialty Chemicals](#)

E 299 [Test Method for Trace Amounts of Peroxide in Organic Solvents](#)

~~E29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications~~ [Test Method for Trace Amounts of Peroxides In Organic Solvents](#)

### 3. Significance and Use

3.1 This test method describes the analytical measurement of residual matter in solvents that are intended to be 100 % volatile at  $105 \pm 5^\circ\text{C}$ . Volatile solvents are used in the manufacture of paint, varnish, lacquer, and other related products, and the presence of any residue may affect the product quality or efficiency of the process. This test method is useful in manufacturing control and assessing compliance with specifications.

### 4. Apparatus

4.1 *Oven*, thermostatically controlled at  $105 \pm 5^\circ\text{C}$ .

4.2 *Dish*, evaporating, platinum, 125-mL. A platinum evaporating dish is preferred. Alternatively, an aluminum or porcelain dish may be used (see Note 1).

<sup>1</sup> This test method is under the jurisdiction of ASTM Committee D01 on Paint and Related Coatings, Materials, and Applications and is the direct responsibility of Subcommittee D01.35 on Solvents, Plasticizers, and Chemical Intermediates.

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<sup>2</sup> 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.

\*A Summary of Changes section appears at the end of this standard.