



Designation: D 2832 – 92 (Reapproved 1999)

Standard Guide for Determining Volatile and Nonvolatile Content of Paint and Related Coatings¹

This standard is issued under the fixed designation D 2832; 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 (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This guide is intended to aid in the selection of the proper ASTM standard for determining the volatile and non-volatile content of paint and related coatings.

NOTE 1—Test methods for determining the composition of the volatile fraction are not covered by this guide.

1.2 The standards included are as follows:

Type of Coating	Section	ASTM Designation
Aerosol coatings	4.1	D 3062
Architectural wall coatings, interior, high performance	4.3	D 1644
Asphalt roof coatings	4.4	D 2823
Asphalt roof coatings, aluminum-pigmented	4.5	D 2824
Bitumens, emulsified	4.6	D 2939
Bleached lac varnish	4.7	D 1650
Coil coatings	4.8	D 1353 D 2697
Electrical insulation varnishes	4.9	D 115
House paints, gloss	4.10	D 2697
Industrial baking enamel	4.10	D 2697
Lacquers, clear and pigmented	4.11	D 1644
Latex paint, exterior	4.10	D 2697
Latex paint, interior	4.10	D 2697
Magnet wire enamels	4.12	D 3288
Plastics, coatings for	4.13	D 1644
Powder coatings	4.14	D 3451
Shellac varnish, orange	4.7	D 1650
Silanes, Siloxanes and Silane-Siloxane Blends	4.18	D 5095
Solvent-reducible coatings	4.2	D 2369
Traffic paints	4.15	D 2205
Varnishes	4.16	D 1644
Wall and trim enamels, interior semigloss, solvent-based	4.17	D 2697
Wall paints, flat	4.10	D 2697
Water-reducible coatings	4.2	D 236

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 appro-

appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

2. Referenced Documents

2.1 ASTM Standards:

- D 115 Test Methods of Testing Varnishes Used for Electrical Insulation²
- D 333 Test Methods for Clear and Pigmented Lacquers³
- D 1353 Test Method for Nonvolatile Matter in Volatile Solvents for Use in Paint, Varnish, Lacquer, and Related Products⁴
- D 1644 Test Methods for Nonvolatile Content of Varnishes⁵
- D 1650 Test Methods of Sampling and Testing Shellac Varnish⁶
- D 2205 Guide for Selection of Tests for Traffic Paints³
- D 2369 Test Method for Volatile Content of Coatings⁵
- D 2697 Test Method for Volume Nonvolatile Matter in Clear or Pigmented Coatings⁵
- D 2823 Specification for Asphalt Roof Coatings⁷
- D 2824 Specification for Aluminum-Pigmented Asphalt Roof Coatings Non-Fibered, Asbestos Fibered, and Fibered without Asbestos⁷
- D 2939 Test Methods for Testing Emulsified Bitumens Used as Protective Coatings⁷
- D 3062 Test Method for Solids Content of Aerosol Coatings⁸
- D 3288 Test Method for Magnet-Wire Enamels⁹
- D 3451 Practices for Testing Polymeric Powders and Powder Coatings³
- D 5095 Test Method for Determination of the Nonvolatile Content in Silanes, Siloxanes and Silane-Siloxane Blends Used in Masonry Water Repellant Treatments³

¹ This guide is under the jurisdiction of ASTM Committee D-1 on Paint and Related Coatings, Materials, and Applications and is the direct responsibility of Subcommittee D01.21 on Chemical Analysis of Paint and Paint Materials.

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² Annual Book of ASTM Standards, Vol 10.01.

³ Annual Book of ASTM Standards, Vol 06.01.

⁴ Annual Book of ASTM Standards, Vol 06.03.

⁵ Annual Book of ASTM Standards, Vol 06.02.

⁶ Annual Book of ASTM Standards, Vol 04.04.

⁷ Annual Book of ASTM Standards, Vol 15.09.

⁸ Annual Book of ASTM Standards, Vol 10.02.

⁹ Annual Book of ASTM Standards, Vol 06.04.