Designation: D2832 – 92 (Reapproved 2016)

Standard Guide for Determining Volatile and Nonvolatile Content of Paint and Related Coatings[1]

This standard is issued under the fixed designation D2832; 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 nonvolatile 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	D3062
Architectural wall coatings, interior, high performance	4.3	D1644
Asphalt roof coatings	4.4	D2823
Asphalt roof coatings, aluminum-pigmented	4.5	D2824
Bitumens, emulsified	4.6	D2939
Bleached lac varnish	4.7	D1650
Coil coatings	4.8	D1353
		D2697
Electrical insulation varnishes	4.9	D115
House paints, gloss		D2697
Industrial baking enamel		D2697
Lacquers, clear and pigmented	4.11	D1644
		D333
Latex paint, exterior		D2697
Latex paint, interior		D2697
Magnet wire enamels	4.12	D3288
Plastics, coatings for	4.13	D1644
Powder coatings	4.14	D3451
Shellac varnish, orange	4.7	D1650
Silanes, Siloxanes and Silane-Siloxane Blends	4.18	D5095
Solvent-reducible coatings	4.2	D2369
Traffic paints	4.15	D2205
Varnishes	4.16	D1644
Wall and trim enamels, interior semigloss, solvent-based	4.17	D2697
Wall paints, flat	4.10	D2697
Water-reducible coatings	4.2	D2369

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 *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]

D115 Test Methods for Testing Solvent Containing Varnishes Used for Electrical Insulation

D333 Guide for Clear and Pigmented Lacquers

D1353 Test Method for Nonvolatile Matter in Volatile Solvents for Use in Paint, Varnish, Lacquer, and Related Products

D1644 Test Methods for Nonvolatile Content of Varnishes

D1650 Test Methods for Sampling and Testing Shellac Varnish (Withdrawn 1997)[3]

D2205 Guide for Selection of Tests for Traffic Paints

D2369 Test Method for Volatile Content of Coatings

D2697 Test Method for Volume Nonvolatile Matter in Clear or Pigmented Coatings

D2823 Specification for Asphalt Roof Coatings, Asbestos-Containing

D2824 Specification for Aluminum-Pigmented Asphalt Roof Coatings, Nonfibered, Asbestos Fibered, and Fibered without Asbestos

D2939 Test Methods for Emulsified Bitumens Used as Protective Coatings (Withdrawn 2012)[3]

D3062 Test Method for Solids Content of Aerosol Coatings (Withdrawn 1994)[3]

D3288 Test Methods for Magnet-Wire Enamels

D3451 Guide for Testing Coating Powders and Powder Coatings

D5095 Test Method for Determination of the Nonvolatile Content in Silanes, Siloxanes and Silane-Siloxane Blends Used in Masonry Water Repellent Treatments

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

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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] The last approved version of this historical standard is referenced on www.astm.org.