



Designation: D6511/D6511M – 18 (Reapproved 2024)

Standard Test Methods for Solvent Bearing Bituminous Compounds¹

This standard is issued under the fixed designation D6511/D6511M; 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 These test methods cover procedures for sampling and testing solvent bearing bituminous compounds for use in roofing and waterproofing.

1.2 The test methods appear in the following order:

	Section
Sampling	4
Uniformity	5
Weight per gallon	6
Nonvolatile content	7
Solubility	8
Ash content	9
Water content	10
Consistency	11
Behavior at 60 °C [140 °F]	12
Pliability at –0 °C [32 °F]	13
Aluminum content	14
Reflectance of aluminum roof coatings	15
Strength of laps of rolled roofing adhered with roof adhesive	16
Adhesion to damp, wet, or underwater surfaces	17
Mineral stabilizers and bitumen	18
Mineral matter	19
Volatile organic content	20

1.3 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in nonconformance with the standard.

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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.5 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

¹ These test methods are under the jurisdiction of ASTM Committee D08 on Roofing and Waterproofing and are the direct responsibility of Subcommittee D08.05 on Solvent-Bearing Bituminous Compounds for Roofing and Waterproofing.

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2. Referenced Documents

2.1 ASTM Standards:²

- C670 Practice for Preparing Precision and Bias Statements for Test Methods for Construction Materials
- D4 Test Method for Bitumen Content
- D88/D88M Test Method for Saybolt Viscosity
- D95 Test Method for Water in Petroleum Products and Bituminous Materials by Distillation
- D140/D140M Practice for Sampling Asphalt Materials
- D146/D146M Test Methods for Sampling and Testing Bitumen-Saturated Felts and Woven Fabrics for Roofing and Waterproofing
- D224 Specification for Smooth-Surfaced Asphalt Roll Roofing (Organic Felt) (Withdrawn 2002)³
- D249 Specification for Asphalt Roll Roofing (Organic Felt) Surfaced with Mineral Granules (Withdrawn 2002)³
- D562 Test Method for Consistency of Paints Measuring Krebs Unit (KU) Viscosity Using a Stormer-Type Viscometer
- D1475 Test Method for Density of Liquid Coatings, Inks, and Related Products
- D2369 Test Method for Volatile Content of Coatings
- D2824/D2824M Specification for Aluminum-Pigmented Asphalt Roof Coatings, Nonfibered, and Fibered without Asbestos
- D4017 Test Method for Water in Paints and Paint Materials by Karl Fischer Method
- E1 Specification for ASTM Liquid-in-Glass Thermometers
- E145 Specification for Gravity-Convection and Forced-Ventilation Ovens
- E200 Practice for Preparation, Standardization, and Storage of Standard and Reagent Solutions for Chemical Analysis

3. Significance and Use

3.1 These tests are useful in sampling and testing solvent bearing bituminous compounds to establish uniformity of shipments.

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.