



Designation: D6627/D6627M – 22

Standard Test Method for Determination of a Volatile Distillate Fraction of Cold Asphalt Mixtures¹

This standard is issued under the fixed designation D6627/D6627M; 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 reappraisal. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reappraisal.

1. Scope

1.1 This test method covers the determination, by direct measurement, of the ambient to 260 °C [500 °F] volatile distillate fraction of cold mix asphalt mixtures.

1.2 A precision and bias statement for this test method has not been developed since this test method is used for research purposes or information only. Therefore this test method should not be used for acceptance or rejection of a material for purchasing purposes.

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 The text of this standard references notes and footnotes which provide explanatory material. These notes and footnotes (excluding those in tables and figures) shall not be considered as requirements of the standard.

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

1.6 *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 This test method is under the jurisdiction of ASTM Committee D04 on Road and Paving Materials and is the direct responsibility of Subcommittee D04.27 on Cold Mix Asphalts.

Current edition approved Dec. 15, 2022. Published December 2022. Originally approved in 2001. Last previous edition approved in 2016 as D6627/D6627M – 11 (2016). DOI: 10.1520/D6627_D6627M-22.

2. Referenced Documents

2.1 *ASTM Standards:*²

D979/D979M Practice for Sampling Asphalt Mixtures

D1461 Test Method for Moisture or Volatile Distillates in Asphalt Mixtures

D3666 Specification for Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials

D4753 Guide for Evaluating, Selecting, and Specifying Balances and Standard Masses for Use in Soil, Rock, and Construction Materials Testing

D6997 Test Method for Distillation of Emulsified Asphalt

3. Significance and Use

3.1 This test method is used for determining the amount of a temperature-specific volatile distillate fraction in cold mix asphalt mixtures.

NOTE 1—The quality of the results produced by this standard are dependent on the competence of the personnel performing the procedure and the capability, calibration, and maintenance of the equipment used. Agencies that meet the criteria of Specification D3666 are generally considered capable of competent and objective testing, sampling, inspection, etc. Users of this standard are cautioned that compliance with Specification D3666 alone does not completely ensure reliable results. Reliable results depend on many factors; following the suggestions of Specification D3666 or some similar acceptable guideline provides a means of evaluating and controlling some of those factors.

4. Apparatus

4.1 *Vertical Cylindrical Metal Still*, similar to that used in Test Method D6997, having a faced flange at the top to which the head is tightly attached by means of a clamp. The head shall be of a metal, preferably copper or brass, and shall be provided with a tubular opening of 25 mm [1 in.] in inside diameter and an additional tubular opening of 13 mm [½ in.] in inside diameter. Threaded into the 25 mm [1 in.] tubular opening is a

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.