



Designation: ~~D6930-04~~ Designation: D6930 - 10

Standard Test Method for Settlement and Storage Stability of Emulsified Asphalts¹

This standard is issued under the fixed designation D6930; 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.

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

1. Scope

1.1 This test method covers the ability of an emulsified asphalt to remain as a uniform dispersion during storage. It is applicable to emulsified asphalts composed principally of a semisolid or liquid asphaltic base, water, and an emulsifying agent.

~~1.2~~

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

1.3 This test method 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

D6934 Test Method for Residue by Evaporation of Emulsified Asphalt

3. Significance and Use

3.1 This test method is useful for determining, in a comparatively short time, the storage stability or settlement of an emulsified asphalt. It is a measure of the permanence of the dispersion as related to time, but it is not to be construed to have significance as a measure of other stability aspects involved in use.

4. Summary of Test Method

4.1 This test method determines the difference in percent residue of samples taken from the top and bottom of material placed in undisturbed simulated storage for a specified time period. The result is expressed by determining the difference between the percent residue of the top and bottom samples for the storage cylinder.

5. Sample Conditioning for Testing

5.1 All emulsified asphalts shall be properly stirred to achieve homogeneity before testing.

5.2 All emulsified asphalts with viscosity testing requirements of 50°C shall be heated to 50 ± 3°C in the original sample container in a water bath or oven. The container should be vented to relieve pressure. After the sample reaches 50 ± 3°C, stir the sample to achieve homogeneity.

5.3 Emulsified asphalts with viscosity testing requirements of 25°C should be mixed or stirred at 25 ± 3°C in the original sample container to achieve homogeneity.

NOTE 1—Emulsified asphalts with viscosity testing requirements of 25°C may be heated and stirred as specified in 5.2, if necessary. In the event the 5.2 method is used, the sample should be cooled to 25 ± 3°C before testing.

6. Apparatus

6.1 ~~Cylinder—500-mL—500 mL~~ glass cylinder, with pressed or molded glass base and cork, rubber, or glass stopper, having an outside diameter of 50 ± 5 mm.

NOTE 2—The use of a cylinder containing *side arm* glass tubes to permit the siphoning of the material rather than pipetting is an acceptable alternative method.

¹ This test method is under the jurisdiction of ASTM Committee D04 on Road and Paving Materials and is the direct responsibility of Subcommittee D04.42 on Emulsified Asphalt Tests.

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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.