



Designation: ~~D6935-04~~ Designation: D6935 - 11

Standard Test Method for Determining Cement Mixing of Emulsified Asphalt¹

This standard is issued under the fixed designation D6935; 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 test method ~~covers~~ is intended to be a mixing test used to identify or classify a slow setting, SS or CSS, type of emulsion, emulsified asphalt.

1.2 *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

C115 [Test Method for Fineness of Portland Cement by the Turbidimeter](#)

C150 [Specification for Portland Cement](#)

E11 [Specification for Woven Wire Test Sieve Cloth and Test Sieves](#)

D6934 [Test Method for Residue by Evaporation of Emulsified Asphalt](#)

D6997 [Test Method for Distillation of Emulsified Asphalt](#)

3. Significance and Use

3.1 The result of this test method indicates the ability of a slow setting emulsified asphalt to mix with a finely divided, high surface area material (high early strength, Type III, portland cement) without breaking the emulsified asphalt.

4. Sample Conditioning for Testing

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

4.2 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.

4.3 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 4.2, if necessary. In the event the 4.2 method is used, the sample should be cooled to 25 ± 3°C before testing.

5. Apparatus

5.1 ~~Sieves—a 180- μ m sieve and a 76.2-mm diameter 1.40-mm sieve, made of wire cloth conforming to Specification —a 180- μ m sieve and a 1.40-mm sieve with a diameter of approximately 75 mm, made of wire cloth conforming to Specification E11.~~

5.2 ~~Pan—a tin box cover or shallow metal pan of appropriate size to fit over the bottom of the standard sieve.~~

5.3 ~~Mixing Bowl—a round-bottom metal dish or a kitchen saucepan of approximately 500-mL capacity.~~

5.4 ~~Stirring Rod—a metal rod with rounded ends, approximately 10 mm in diameter.~~

5.5 ~~Graduate—a 100-mL graduated cylinder.~~

5.6 ~~Balance, capable of weighing 1000 g to the nearest 0.1 g .~~

5.7 ~~Oven—capable of maintaining a temperature of 163 ± 3°C.~~

5.8 ~~Thermometer—a thermometric device capable of measuring the temperature of the oven and the emulsified asphalt to within 1°C.~~

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.