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Standard Specification for Cationic Emulsified Asphalt¹

This standard is issued under the fixed designation D2397/D2397M; 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.

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

1. Scope

1.1 This specification covers seven grades of cationic emulsified asphalt for use in pavement construction in the manner designated.

1.2 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 non-conformance with the standard.

1.3 *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.*

2. Referenced Documents

2.1 *ASTM Standards:*²

[D5/D5M Test Method for Penetration of Bituminous Materials](#)

[D113 Test Method for Ductility of Asphalt Materials](#)

[D140/D140M Practice for Sampling Asphalt Materials](#)

[D244 Test Methods and Practices for Emulsified Asphalts](#)

[D2042 Test Method for Solubility of Asphalt Materials in Trichloroethylene](#)

[D3910 Practices for Design, Testing, and Construction of Slurry Seal](#)

[D6930 Test Method for Settlement and Storage Stability of Emulsified Asphalts](#)

[D6933 Test Method for Oversized Particles in Emulsified Asphalts \(Sieve Test\)](#)

[D6935 Test Method for Determining Cement Mixing of Emulsified Asphalt](#)

[D6936 Test Method for Determining Demulsibility of Emulsified Asphalt](#)

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

[D7226 Test Method for Determining the Viscosity of Emulsified Asphalts Using a Rotational Paddle Viscometer](#)

[D7402 Practice for Identifying Cationic Emulsified Asphalts](#)

[D7496 Test Method for Viscosity of Emulsified Asphalt by Saybolt Furol Viscometer](#)

[D7553 Test Method for Solubility of Asphalt Materials in N-Propyl Bromide](#)

3. Requirements

3.1 The emulsified asphalt shall be tested within 14 days of delivery. The emulsified asphalt shall be homogeneous after thorough mixing, provided separation has not been caused by freezing. Emulsions separated by freezing shall not be tested.

3.2 Emulsified asphalt shall conform to the requirements prescribed in [Table 1](#). Specify the test method to be used. Specify either Test Method [D7226](#) or [D7496](#).

4. Sampling

4.1 Samples of emulsified asphalt shall be taken in accordance with Practice [D140/D140M](#).

4.2 Samples shall be stored in clean, airtight sealed containers at a temperature of not less than 4 °C [39.2 °F] until tested.

¹ This specification is under the jurisdiction of ASTM Committee [D04](#) on Road and Paving Materials and is the direct responsibility of Subcommittee [D04.41](#) on Emulsified Asphalt Specifications.

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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.