
Standard Practice for Certifying Suppliers of Emulsified Asphalt

AASHTO Designation: R 77-16 (2024)¹

Adopted: 2016

Reviewed but Not Updated: 2024

Technical Subcommittee: 2a, Emulsified Asphalts



**American Association of State Highway and Transportation Officials
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Standard Practice for

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AASHTO

1. SCOPE
- 1.1.

This standard specifies requirements and procedures for a certification system applicable to all suppliers of emulsified asphalt. The requirements and procedures apply to materials that meet the requirements of M 140, M 208, or M 316, which are manufactured at refineries, terminals, in-line blended, or otherwise produced for use in paving applications.
- 1.2.

This standard may involve hazardous materials, operations, and equipment. It does not purport to address all of the safety concerns 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.

AASHTO Standards:
 - M 140, Emulsified Asphalt
 - M 208, Cationic Emulsified Asphalt
 - M 316, Polymer-Modified Emulsified Asphalt
 - R 66, Sampling Asphalt Materials
- 2.2.

ASTM Standard:
 - D3665, Standard Practice for Random Sampling of Construction Materials

3. TERMINOLOGY
- 3.1.

Definitions:
- 3.1.1.

supplier—one who produces the final product or who makes a blend or modification that alters the properties of the emulsified asphalt specified in M 140, M 208, or M 316. A supplier is a refinery, terminal, or paving contractor. If no modification is made to the emulsified asphalt after its initial production at the refinery or terminal, the refinery or terminal is the supplier and must provide the certification. If any modifications are made to the emulsified asphalt at the terminal, the terminal is a manufacturing site and considered the supplier. As a manufacturing site, the terminal must provide the certification. If any modification, blending, or blending of emulsified asphalt from different sources is made at the job site, the paving contractor is the supplier and must provide the certification.
- 3.1.2.

agency—a state highway agency or other agency responsible for the final acceptance of the emulsified asphalt.

- 3.1.3. *specification compliance testing*—complete testing in accordance with M 140, M 208, or M 316 specification requirements.
- 3.1.4. *quality control testing*—the minimum quality control testing as described in the supplier’s quality control plan. The supplier’s quality control plan shall be approved by the agency.

4. SIGNIFICANCE AND USE

- 4.1. This standard specifies procedures for minimizing disruption of emulsified asphalt shipments and describes a certification system that evaluates quality control and specification compliance tests performed by the supplier on samples obtained prior to shipment.
- 4.2. The number of emulsified asphalt grades possible under M 140, M 208, or M 316 may require additional storage facilities if the procedure of “sample and hold while testing” is followed exclusively. The addition of new storage capacity at a facility may be infeasible at some locations. Standardization of procedures that allow shipment under an approved supplier certification system provides the flexibility needed to use existing facilities and to limit any shipment disruptions.
- 4.3. *This standard provides information on the following activities:*
- 4.3.1. General requirements that the supplier shall satisfy to achieve approved-supplier status;
- 4.3.2. Minimum requirements included in a supplier’s quality control plan;
- 4.3.3. General requirements that the supplier shall require before certification is granted;
- 4.3.4. Procedure for shipping emulsified asphalt under an approved supplier certification system;
- 4.3.5. Procedure for agency monitoring of an approved supplier certification system at the shipping facility; and
- 4.3.6. Procedure for field sampling and testing of emulsified asphalt shipped under an approved supplier certification system.

5. HAZARDS

- 5.1. The safety requirements of the field organization, laboratory organization, and OSHA shall be observed.

6. SAMPLING

- 6.1. All test samples required by this standard shall be obtained in accordance with R 66 and ASTM D3665. The use of a random sampling procedure is mandatory to the establishment of a valid certification program.

7. TESTING REQUIREMENTS

- 7.1. Testing required for this standard shall be performed by a laboratory currently accredited by the AASHTO accreditation program (Notes 1 and 2). Agencies may require that the refinery, terminal, or final production site have a quality control laboratory on site with sufficient testing equipment to ensure quality control in day-to-day production. Any satellite laboratory of a supplier that