

2026 Emulsified Asphalt Proficiency Samples 85 (A) and 86 (B) Sample Instructions

Closing Date: October 15, 2026

General Information:

Treat each sample as you would treat a typical sample brought into the laboratory. Any special handling or preparation instructions are included below. Conduct tests on each of the two samples in accordance with the instructions below. Report the results of a single determination only, not the average of two or more, unless specified in the test method or instructions.

The instructions and data sheet may direct laboratories to report the results to an extra decimal place beyond what is required by a test method. This extra level of precision improves the quality of the statistical analysis by giving us more detailed data for evaluation.

To permit an estimate of single-operator precision, the same operator should conduct an individual test on both samples. It is not necessary that the same person conduct all the tests in the sample round.

Leave the appropriate spaces on the data sheet blank for any tests you choose not to perform.

Requirements for AASHTO Accredited Laboratories:

AASHTO accredited laboratories are required to perform every test included in an AASHTO re:source Proficiency Sample Program sample round that is also listed in each laboratory's AASHTO Accreditation scope.

[AASHTO Accreditation Policy on PSP Participation](#)

The tests that are not listed in the laboratory's accreditation scope may also be performed, but testing is not required, and the AASHTO Accreditation Program (AAP) will not evaluate the ratings.

Sample Information:

The outside of the sample box is labeled 85 (A) and 86 (B). The bottles inside the box are labeled only (A) and (B). The bottles labeled (A) are sample 85. The bottles labeled (B) are sample 86.

Sample Preparation:

No specialized preparation methods are required for this material. Please follow the sample preparation instructions in the test methods.

Test Methods:

Viscosity of Emulsified Asphalt by Saybolt Furol Viscometer, AASHTO T 59-25 or ASTM D7496-18:

Determine the Saybolt Furol viscosity at 25°C (77°F) including the application of the calibration factor of the viscosity tube. Report the viscosity to the nearest 0.1 s.

Viscosity of Emulsified Asphalts Using a Rotational Paddle Viscometer, AASHTO T 382-22 or

ASTM D7226-24: Determine the apparent viscosity at 25°C (77°F), applying the appropriate correction factor if needed. Report the apparent viscosity to the nearest 0.1 mPa-s. Report the type of device used (TE-DPV – with chiller, or standard DPV without chiller).

Test methods on the Residue by Distillation and/or Evaporation:

Testing Emulsified Asphalts - Residue by Distillation, AASHTO T 59-25 or ASTM D6997-24: Report the percent residue by distillation to the nearest 0.1%. Report the oil distillate as a volume percentage of the total emulsion to the nearest 0.1%.

Testing Emulsified Asphalts - Residue by Evaporation AASHTO T59-25 or ASTM D6934-22:

Determine the percentage of residue by evaporation for each beaker. Report the average of the results to the nearest 0.1%.

Penetration of Bituminous Materials at 25°C, AASHTO T 49-26 or ASTM D5/D5M-20: Report, to the nearest whole unit, the average of three penetrations (at 25°C, 100 g, 5 s) whose values do not differ more than the amount given in T 49 or D5.

Solubility of the Residue AASHTO T44-23 or ASTM D2042-25: Report the percentage of material soluble to the nearest 0.01%.

Ash Content of Asphalt and Emulsified Asphalt Residues, AASHTO T 111-22 or ASTM D8078-24: Report the ash content of the unconditioned asphalt binder to the nearest 0.01%.

OPTIONAL Tests:

Determination of Emulsified Asphalt Residue by Quick Boil, ASTM D8467-22:

For **Sample 85 (A)** perform the test using specimens with an initial sample mass in the range of 30 to 60 g. For **Sample 86 (B)**, perform the test using specimens with an initial sample mass in the range of 10 to 20 g. Report the percent residue to the nearest 0.1%.

Contact AASHTO re:source at psp@ashtoresource.org or call 240-436-4900 if you have any questions.