

ALDOT-255-83
FIELD METHOD FOR DETERMINING THE EFFECT OF AN ANTI-STRIPPING
AGENT IN BITUMINOUS MIXTURES

1. Scope

- 1.1. This method covers the procedure to be used by asphalt plant inspectors to determine whether an anti-stripping agent is present in samples of plant mix produced by an asphalt plant, when the use of an anti-stripping agent is required.

2. Apparatus

- 2.1. Balances (accurate to 0.1 g)
- 2.2. Pans
- 2.3. Spatulas
- 2.4. Beakers (approx. 1000 ml)
- 2.5. Hot plate or gas burner (for heating water in beakers)
- 2.6. Timer
- 2.7. Asbestos shields

3. Procedure

- 3.1. Obtain a 300-g sample of the bituminous mixture.
- 3.2. Place the sample in slow boiling water and let simmer for ten (10) minutes. An asbestos shield, the double boiler method or some other suitable means should be used to distribute the heat evenly under the container.
- 3.3. Drain the water from the mixture and place the mixture on a paper towel.
- 3.4. Visually inspect the mixture and determine the amount of stripping. (This should be done with a minimum amount of disturbance to the sample.)
- 3.5. If the mixture appears to be borderline, the sample should then be allowed to dry before making a final evaluation.

4. Reporting

- 4.1. Mixtures that fail to retain at least 95% coating, after testing, will not be acceptable. Report as failing or passing.