



WSDOT Test Method T 706

Method of Static Immersion Asphalt in Water Preferential Stripping Test

1. SCOPE

- a. This method is used to determine the extent of static stripping, a preference of aggregate for asphalt binder or water. The results are used to determine the suitability of the aggregate for Hot Mix Asphalt.
- b. This test is technically equivalent to AASHTO T 182.

2. EQUIPMENT

- a. Mixing Bowl — Hemispherical.
- b. Mixing spoon.
- c. Distilled water.
- d. Glass Jar — 400 ml.
- e. Oven — $140^{\circ} \pm 5^{\circ}\text{F}$ ($60^{\circ} \pm 3^{\circ}\text{C}$).

3. PROCEDURE

- a. Use the liquid asphalt binder product called for in the contract, or if a preliminary sample, use both MC-800 and RC-3000.
- b. The material to be tested shall be $\frac{3}{8}$ in. to $\frac{1}{4}$ in. (9.5 mm to 6.3 mm) aggregate or other sized material without the $\frac{1}{4}$ in. to 0 in. (6.3 mm to 0).
- c. Heat aggregate and liquid asphalt binder at $140^{\circ} \pm 5^{\circ}\text{F}$ ($60^{\circ} \pm 3^{\circ}\text{C}$) for approximately two hours.
- d. In the hemispherical bowl, mix until completely coated 94 g of $\frac{3}{8}$ in. to No. 4 (9.5 mm to 4.75 mm) aggregate with 6 ± 0.5 g immeasurable of liquid asphalt binder.
- e. Place the sample in a 140°F (60°C) curing oven for approximately 15 hours.
- f. Remove the mix from the oven, stir to recoat particles if necessary, and transfer the coated aggregate to the 400 ml glass jar. Add distilled water, warmed to room temperature, to cover the sample.
- g. Examine the sample for stripping at the end of 1, 2, and 24 hours without removing the aggregate from the water. The stripping is estimated by comparison with a nonstripping aggregate.

4. REPORTS

- a. Stripping results are recorded as none, slight, moderate, or severe.

