

GDT 12

A. Scope

For a complete list of GDTs, see the Table of Contents.

This method of test covers the procedure for the determination of anti-stripping properties of cutback asphalt emulsions.

B. Apparatus

1. Glass marbles—0.5 in to 1 in (12.5 to 25 mm) in diameter.
2. Evaporating Dish or Beaker.
3. Wick—3 in to 6 in (75 mm to 150 mm) long.

C. Sample Size and Preparation

No sample preparation is needed.

D. Procedures

1. Coat 3 marbles with a thin coating of the cutback asphalt emulsion by rotating the marbles in a circular movement in a dish or beaker containing the bituminous material until they are completely coated.
2. After coating, place the marbles in a clean 4 inch (102 mm) diameter evaporating dish. Take care not to disturb the coated area. Allow the marbles to cure in this position for a minimum of 24 hours at room temperature.
3. After the curing period, allow room-temperature water to cover the coated marbles by capillary action, which is accomplished by using wicks to convey the water from a container to the specimens. Allow the water to rise at the approximate rate of 0.3 pints (150 cc) in 12 hours.
4. After the marbles are covered with water, keep them in this position for a minimum of 24 hours, after which, gently pour off the waters. Allow the marbles to dry and then examine them with a reading glass to determine whether any stripping occurred.

E. Calculations

No calculations are needed.

F. Report

The material shall be reported as meeting or failing the test. Consider the material as meeting the specifications only when the marbles remain 100 percent coated.