

**ASPHALT IN-HOUSE CALIBRATION PROCEDURE # 12  
DUCTILITY TEST APPARATUS**

**EQUIPMENT CHECKED: DUCTILITY TEST APPARATUS (AASHTO T 51) (ASTM D 113)**

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**1. SCOPE**

- 1.1 This procedure provides instructions for checking the equipment used to perform the ductility test.
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**2. APPARATUS**

*Inspection Equipment Required:*

1. Ruler, readable to 1 mm
2. Timer, readable to 0.1 sec.
3. Thermometer, calibrated and readable to 0.1°C (0.2°F)

*Tolerance:*

Equipment shall meet the tolerances specified in test methods T 51 and D 113.

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**3. PROCEDURE**

- 3.1 Fill the ductility machine with water.
- 3.2 Attach the clips of a mold to the pins or hooks of the testing machine.
- 3.3 Measure and record, to the nearest 1mm, the distance from the surface of the water to the top of the mold.
- 3.4 Measure and record, to the nearest 1 mm, the distance from the bottom of the ductility machine to the bottom of the mold.
- 3.5 Start the ductility machine.
- 3.6 Measure and record the distance that the clips move after one minute of travel.
- 3.7 Measure and record the distance between the surface of the water and the perforated shelf.
- 3.8 Measure and record the distance between the bottom of the bath to the perforated shelf.
- 3.9 Observe and record the temperature of the water in the bath and in the ductility machine.