

OHD L-42
METHOD OF TEST FOR
ELASTIC RECOVERY BY MEANS OF THE DUCTILOMETER

I. **DUCTILOMETER TEMPERATURE.**

- A. Polymerized Emulsion
Residue Less than 200 Penetration 50°F (10° C)
- B. Polymerized Emulsion Residue
Greater than 200 Penetration 39° (4° C)

II. **PROCEDURE.** Condition the ductilometer and samples to be tested at the temperature prescribed for that material. Prepare the apparatus and test specimen in accordance with AASHTO T 51 except parts a and a' of the ductility mold shall be modified to produce a specimen with straight sides. Condition the specimen in the testing machine at the specified test temperature for 85 – 95 minutes. Test the specimens in accordance with AASHTO T 51 with the following modifications. The rate of pull shall be 2 inches (5 cm) / minute unless otherwise stated. After the 7 7/8 inches (20 cm) elongation has been reached, stop the ductilometer and hold the sample in its elongated position. After 5 minutes, clip the sample approximately in half by means of scissors or other suitable cutting devices. Let the sample remain in the ductilometer in an undisturbed condition for one (1) hour. At the end of this time period, retract the half sample specimen until the two broken ends touch. At this point, note the elongation in centimeters.

III. **CALCULATIONS.** Calculate the percent recovery by the following formula:

$$\% \text{Recovery} = \frac{20 - x}{20} \times 100$$

Where:

x = Observed elongation after rejoining of sample, centimeters.

Revision Date	Revision Description
9/9/08	Removed PG Binder from Section I and re-lettered.