

DISTILLATION OF CUTBACK ASPHALT PRODUCTS

1.0 SCOPE

- 1.1 The test method is used to determine the amount of the more volatile components in cutback asphalt products.

Note: The properties of the residue after distillation are not necessarily characteristics of the asphalt used in the original mixture nor of the residue which may be left at any particular time after application of the cutback asphalt product.

- 1.2 200 ml of cutback asphalt are distilled at a controlled rate to a temperature of 360°C and the volume of distillate as the volatile components are measured at specific temperatures.

2.0 APPLICABLE DOCUMENTS

- 2.1 ASTM D402 Standard Test Method for Distillation of Cutback Asphaltic Products

3.0 PROCEDURE

- 3.1 Refer to the latest version of ASTM D402.

Note: Place shield around Residue container to prevent rapid cooling and skin formation. If skin begins to form on the residue it should be gently pushed to the side without disturbing the sample.

When residue has cooled until fuming ceases, stir thoroughly and pour into 130 ml (6 oz) cans for testing penetration of MC-250, MC-800 and RC-250. Use 65 ml (3 oz) cans for MC-30, MC-70, RC-30 and RC-70.

If slight crackling or foaming occurs during distillation, report as trace H₂O.

If a noticeable amount of H₂O is collected in the graduated cylinder, it shall be subtracted from the total volume of distillate for calculation purposes. The sample should then be tested for H₂O content following ASTM D95.

4.0 CALCULATIONS

The calculations are as per ASTM D402.