

State of Nevada
Department of Transportation
Materials Division

METHOD OF TEST FOR SIEVE TEST OF ASPHALT

SCOPE

This method is to determine if particulates are present in an asphalt cement sample.

SUMMARY OF TEST METHOD

An asphalt sample is poured over a No. 10 (2.00 mm) sieve and a visual observation is made to determine if any particulates are retained on the sieve.

APPARATUS

1. Sieve, No. 10 (2.00 mm) with a 3 in. (76 mm) diameter, made of wire cloth conforming to Specification E 11.
2. Containers, cylindrical seamless metal containers, with an approximate diameter of 3 in. (76mm) and depth of 2 in. (51 mm), or similar container.
3. Balance, conforming to the requirements of AASHTO M 231, Class G2.
4. Oven, capable of maintaining temperatures to 163°C (325°F).

PROCEDURE

Heat the sample in an oven until it has become sufficiently fluid to pour. Unmodified asphalts will be heated in an oven set at $135 \pm 5.5^{\circ}\text{C}$ ($275 \pm 10^{\circ}\text{F}$). Modified asphalts will be heated in an oven set at $163 \pm 5.5^{\circ}\text{C}$ ($325 \pm 10^{\circ}\text{F}$). After the sample is fluid, stir to achieve uniformity while taking care to avoid the entrapment of air. Preheat the sieve to the same temperature as the asphalt. Set the sieve onto the container and place both on the balance. Pour 100 ± 0.1 g of asphalt onto the sieve. Place the container and the sieve back into the appropriate oven for a sufficient amount of time to allow the asphalt to drain through the sieve. Draining time shall not exceed 2 hours. Remove the sieve and container from the oven. Visually inspect the sieve for any particulates retained on the sieve.

REPORT

Report the number of particulates retained on the sieve.