

State of Nevada
Department of Transportation
Materials Division

**METHOD OF TEST FOR DETERMINING THE VISCOSITY OF EMULSIFIED ASPHALT BY
ROTATIONAL PADDLE VISCOMETER**

Follow AASHTO T382 in its entirety with the following exceptions:

For testing at 50°C (122°F), preheat the viscometer and paddle for 30-60 seconds prior to running a test. Heat the test cup and sieve to approximate test temperature in an oven maintained at $50 \pm 3^\circ\text{C}$ ($122 \pm 5^\circ\text{F}$).

The sieve will be an 850 μm (No. 20) sieve of wire cloth, framed, with a cloth diameter of $1\ 1/2 \pm 1/8$ in.

If enough material to fill the test cup will not pass through two sieves due to excess particulates, the viscosity will be considered unobtainable by this procedure.

Clean sample cups and paddles with an appropriate solvent followed by acetone.

Metal cups will be used for referee testing.

For verification, the viscosity measured shall be within $\pm 5\%$ of the viscosity standard or the unit requires recalibration. At 50°C (122°F), the recommended certified viscosity standard is S2000.

During field testing, the material may be received at a temperature exceeding 50°C (122°F). In this case, pour approximately 175 to 200 ml of emulsion into a transfer container made of glass or plastic with an approximate diameter of 3.5 in. Immerse the container in a pan of tap water maintained at $25 \pm 5^\circ\text{C}$ ($77 \pm 9^\circ\text{F}$). The emulsion sample shall be fully immersed below the level of the water, taking care not to contaminate sample. Stir the emulsion at approximately 60 rpm with a thermometer and cool the sample to $50 \pm 3^\circ\text{C}$ ($122 \pm 5^\circ\text{F}$). Keep the original sample container in a 50°C (122°F) oven until all testing is complete.