OKLAHOMA DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISION
FOR
MULTIPLE STRESS CREEP RECOVERY (MSCR) TESTING

These Special Provisions revise, amend, and where in conflict, supersede applicable sections of the 2009 Standard Specifications for Highway Construction, English and Metric.

708.03 ASPHALT MATERIALS *(Replace Table 708:2 with the following:)*

Table 708:2
Additional Requirements to AASHTO M 320 for Asphalt Cement

Test	PG 64-22 OK	PG 70-28 OK	PG 76-28 OK
MSCR Recovery [a], 147.2°F [64°C], %	—	≥ 50	≥ 80
Separation [b] , %	—	≤ 10	≤ 10
Original DSR G*/sin(δ), kPa	≤ 2.50	≤ 2.50	≤ 2.50
RTFO DSR G*/sin(δ), kPa	≤ 5.50	≤ 5.50	≤ 5.50
PAV DSR Change in testing temperature, °F [°C]	—	77 [25]	77 [25]
Spot test [c]	Negative	—	—
Flash point, °F [°C]	≥ 500 [260]	≥ 500 [260]	≥ 500 [260]
Solubility in trichloroethylene, %	≥ 99	≥ 99	≥ 99

Note: Asphalt binder suppliers will provide handling requirements and recommended field mixing and compaction temperatures for their product to the hot-mix producer.
[a] AASHTO TP 70 average percent recovery at 3.2 kPA, $R_{3.2}$.
[b] Separation test samples are prepared in accordance with ASTM D 5976, but are reported as the difference in G* between the top and bottom samples.
[c] Spot test using solvent blend of 65 percent heptane and 35 percent xylene by volume.

708.06 SAMPLING AND TESTING

(Revise Table 708:13 to add the following row to the Asphalt Materials section):

Table 708:13
Sampling and Testing of Aggregates, Bituminous Mixtures, and Asphalt Materials

Materials	Testing Method
Multiple Stress Creep Recovery (MSCR) Test of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)	AASHTO TP 70

(Revise Table 708:13 to remove the following row, and its associated footnote:)

Elastic recovery test by means of ductilometer [c]	ASTM D 6084