OKLAHOMA DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISION
FOR
MATERIAL REQUIREMENTS FOR NT TACK MATERIAL

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 *(Add the following:)*

Provide NT tack material in accordance with Table 708:3a for the grade required by the Contract.

Table 708:3a
Requirements for NT Tack Material

Test	Emulsion		
	CBC-1H	**NTSS-1HM**	**NTQS-1HH**
Saybolt Furol Viscosity, SFS @ 77°F [25°C]	10 – 100	15 – 100	15 – 100
Storage stability test, 24 hours, %	≤ 1	≤ 1	≤ 1
Particle Charge	Positive	–	–
Sieve test, %	≤ 0.1	≤ 0.3	≤ 0.3
Tests on residue from distillation [a]			
Residue, %	≥ 50	≥ 50	≥ 50
Penetration, 77°F [25°C], 100 g, 5 s	40 - 90	≤ 20	≤ 15
Softening point, ring, and ball, °F [°C]	–	≥ 149 [65]	≥ 149 [65]
Flash point, °F [°C]	–	–	–
Original DSR G*/sin(δ) @ 180°F [82°C], kPa	–	≥ 1.00	≥ 1.00
Solubility in trichloroethylene, %	≥ 97.5	≥ 97.5	≥ 97.5

[a] Modify the distillation procedure as follows:
Maintain a temperature from 345 °F [174 °C] to 355 °F [180 °C] on the lower thermometer for the last 20 minutes of the test. Residue may also be obtained by evaporation.

Table 708:3b
Requirements for NT Tack Material

Test	Asphalt Cement
	NTHAP
Rotational viscosity [a] @ 300°F [149°C], Pa·s	≤ 3
Penetration, 77°F [25°C], 100 g, 5 s	≤ 25
Softening point, ring, and ball, °F [°C]	≥ 158 [70]
Flash point, °F [°C]	≥ 500 [260]
Original DSR G*/sin(δ) @ 180°F [82°C], kPa	≥ 1.00
Solubility in trichloroethylene, %	–

[a] Limit may be waived if no application problems are present in the field and material can be pumped.

B. Application Temperature (*Amend Table 708:4 to include the following:*)

708:4 **Temperature Ranges for Use of Asphalt Materials**			
Type or Grade	**Mixture,** **°F [°C]**	**For Mixing,** **°F [°C]**	**For Spraying,** **°F [°C]**
NTHAP	–	350 - 400 [177 - 204]	350 - 400 [177 - 204]