

SECTION 702 - BITUMINOUS MATERIALS

702.01 Asphalt Cement. Viscosity graded asphalt cement shall conform to AASHTO M 226 and below.

REQUIREMENTS FOR ASPHALT CEMENT GRADED BY VISCOSITY AT 140°F. (Grading based on residue from Rolling Thin Film Oven Test).	
Tests on Residue from AASHTO T 240	Modified Viscosity Grade, AR-60
Viscosity, 140°F., poise	6000 ± 1500
Viscosity, 275°F., Centistokes - minimum	400
Penetration, 77°F., 100 grams, 5 seconds - minimum	25
Percent of original Penetration, 77°F. - minimum	50
Ductility, 77°F., 5 cm. per minutes - cm. minimum	75
Test on Original Asphalt	Modified Viscosity Grade, AR-60
Flash Point, Cleveland Open Cup, F. - minimum	450
Solubility in Trichloroethylene, percent - minimum	99.0

702.02 (Unassigned)

702.03 Liquid Asphalts. Liquid asphalts shall conform to AASHTO M 82 for medium curing type and AASHTO M 81 for rapid curing type.

702.04 Emulsified Asphalts. Anionic emulsified asphalt shall conform to AASHTO M 140 except that the penetration on residue for Type SS-1 and Type RS-1 shall be 50-120.

Cationic emulsified asphalt shall conform to AASHTO M 208 except that the penetration on residue for Type CSS-1 and Type CRS-2 shall be 50-150.

702.05 Application Temperatures. The Contractor shall apply the bituminous materials for the several applications within the temperature ranges shown in Table 702-I.

702.05

TABLE 702-1 - APPLICATION TEMPERATURES		
Liquid Asphalts (RC & MC)	Temperature Spraying degrees Fahrenheit	Mixing Temperature degrees Fahrenheit
Grade 30	50 - 120	-
Grade 70	100 - 170	-
Grade 250	140 - 220	135 - 175
Grade 800	175 - 250	170 - 200
Grade 3000	215 - 280	200 - 240
All Emulsified Asphalts	75 - 130	75 - 130
Asphalt Cement (All Penetration Grades)	350 Maximum	As required to achieve viscosity of 75-150 seconds, Saybolt-Furol

702.06 (Unassigned)

702.07 **Asphalt Filler.** Asphalt for use as filler between pipes and manhole walls shall conform to AASHTO M 115, Type III.