

## 902-M-051 ASPHALT MATERIALS

(Revised 12-19-19)

The Standard Specifications are revised as follows:

SECTION 902, BEGIN LINE 76, INSERT AS FOLLOWS:

**CRS-2P and HFRS-2P** shall be in accordance with AASHTO M 316. The distillation temperature shall be 350°F.

SECTION 902, BEGIN LINE 97, DELETE AND INSERT AS FOLLOWS:

Characteristic <sup>(1)</sup>	Test Method	AE-90	AE-90S	AE-NT	AE-F	AE-150	AE-PL
Test on Emulsion							
Viscosity, Saybolt Furol at 77°F (25°C), min.	AASHTO T 59			15		50	
Viscosity, Saybolt Furol at 77°F (25°C), max.	AASHTO T 59			100	100		115
Viscosity, Saybolt Furol at 120°F (50°C), min.	AASHTO T 59	50	50			75	
Viscosity, Saybolt Furol at 120°F (50°C), max.	AASHTO T 59					300	
Demulsibility w/35 mL, 0.02N CaCl <sub>2</sub> , % min.	AASHTO T 59		30				
Demulsibility w/50 mL, 0.10N CaCl <sub>2</sub> , % min.	AASHTO T 59	75					
Oil Distillate by Distillation, mL/100 g Emul <sup>(2)</sup> max.	AASHTO T 59	4.0	3.0	4.0	4.0	7.0	3.0
Residue by Distillation, % min.	AASHTO T 59	65	65 <sup>(4)</sup>	50	27	65	30
Residue by Distillation, % max.	AASHTO T 59				35		
Sieve Test, % max.	AASHTO T 59	0.10	0.10	0.30	0.10	0.10	0.10
Penetrating Ability, mm, min.	902.02(w)						6
Stone Coating Test, %	902.02(t)3a	90				90	
Settlement, % max.	AASHTO T 59	5		5			
Storage Stability, % max.	AASHTO T 59		1				
Tests on Residue							
Penetration (0.1 mm) at 77°F (25°C), 100g, 5 s, min. <sup>(3)</sup>	AASHTO T 49	100	90				
Penetration (0.1 mm) at 77°F (25°C), 100g, 5 s, max. <sup>(3)</sup>	AASHTO T 49	200	150	40	90		
Penetration (0.1 mm) at 77°F (25°C), 50g, 5 s, min. <sup>(3)</sup>	AASHTO T 49					100	
Penetration (0.1 mm) at 77°F (25°C), 50g, 5 s, max. <sup>(3)</sup>	AASHTO T 49					300	
Ductility at 77°F (25°C), mm, min.	AASHTO T 51	400					
Ash Content, % max.	AASHTO T 111	1.0	1.0	1.0	1.0	1.0	1.0
Float Test at 140°F (60°C), s, min. <sup>(3)</sup>	AASHTO T 50	1200	1200			1200	
Force Ratio	AASHTO T 300		0.3				
Elastic Recovery, at 39°F (4°C)	AASHTO T 301		58				
Notes: <sup>(1)</sup> Broken samples or samples more than 4/4 days old will not be tested.							
<sup>(2)</sup> Oil distillate shall be in accordance with ASTM D 396, table 1, grade No. 1.							
<sup>(3)</sup> The Engineer may waive the test.							
<sup>(4)</sup> Maximum temperature to be held for 15 minutes at 350 ±9°F (175 ±5°C).							