

State: New York	Materials: Re: Section 702-Bituminous Materials
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New York		Table 1: Requirements for Anionic Emulsified Asphalts						
Property	Test Method AASHTO (T), ASTM (D), or Other	Rapid-Setting			Medium-Setting	Slow-Setting		
		702-3001	702-3002	702-3101	702-3201	702-3501	702-3601	
		RS-1	RS-1h	RS-2	MS-2	SS-1	SS-1h	
EMULSIONS:								
Viscosity, Saybolt Furol seconds	25° C (77° F)	T59	20-100	20-100	-	100 min.	20-100	20-100
	50° C (122° F)		-	-	75-400	100-400 (1)	-	-
Settlement, 5 days, %	-		-	-	-	-	-	
Storage Stability Test, 24 hours, %	1 max.							
Sieve Test, %	0.10 max.							
Demulsibility, % (2)	60 min.			-	-	-		
Cement Mixing Test, %	-		-	-	-	2.0 max.	2.0 max.	
Coating Ability and Water Resistance	Dry Aggregate		-					
	After Spraying							
	Wet Aggregate							
	After Spraying							
Residue, %	55 min.		55 min.	63 min.	65 min.	57 min.	57 min.	
Oil Distillate, volume of emulsion, %	1.5 max.		1.5 max.	2.5 max.	8 max.	1.5 max.	1.5 max.	
DISTILLATION RESIDUE:								
Penetration, 25° C (77° F), tenths of mm	T49	100-200	40-90	100-200	100-200	100-200	40-90	
Ductility, 25° C (77° F), cm	T51	40 min.						
Solubility in trichloroethylene, %	T44	97.5 min.						

New York		Table 2: Requirements for Cationic Emulsified Asphalts								
Property	Test Method AASHTO (T), ASTM (D), or Other	Rapid-Setting			Medium-Setting		Slow-Setting		Quick-Setting	
		702-4001	702-4002	702-4101	702-4201	702-4301	702-4401	702-4501	702-4601	
		CRS-1	CRS-1h	CRS-2	CMS-2	CMS-2h	CSS-1	CSS-1h	CQS-1h	
EMULSIONS:										
Viscosity, Saybolt Furol seconds	25° C (77° F)	T59	20-100	20-100	-	-	-	20-100	20-100	20-100
	50° C (122° F)		-	-	100-400	50-450	50-450	-	-	-
Settlement, 5 days, %			-							
Storage Stability Test, 24 hours, %			1 max.							
Sieve Test, %			0.10 max.							
Particle Charge			Positive							
Demulsibility, %			-							
Cement Mixing Test, %			-		-	-	-	2.0 max.	2.0 max.	-
Coating Ability and Water Resistance	Dry Aggregate		-							
	After Spraying									
	Wet Aggregate									
	After Spraying									
Residue, %			60 min.	60 min.	65 min.	65 min.	65 min.	57 min.	57 min.	62 min.
Oil Distillate, volume of emulsion, %			1.5 max.	1.5 max.	2.5 max.	10 max.	10 max.	1.5 max.	1.5 max.	-
Classification Test		Passes	Passes	Passes	-					
pH		T200	-							
DISTILLATION RESIDUE:										
Penetration, 25° C (77° F), tenths of mm		T49	100-250	40-90	100-250	100-250	40-90	100-250	40-90	40-90
Ductility, 25° C (77° F), cm		T51	40 min.							
Solubility in trichloroethylene, %		T44	97.5 min.							

New York		Table 3: Requirements for High Float Emulsified Asphalts				
Property	Test Method AASHTO (T), ASTM (D), or Other	Rapid-Setting	Medium-Setting			
		702-3102	702-3301	702-3401	702-3402	
		HFRS-2	HFMS-2	HFMS-2h	HFMS-2s	
EMULSIONS:						
Viscosity, Saybolt Furol seconds	25° C (77° F)	-	100 min.	100 min.	50 min.	
	50° C (122° F)	75-400 (1)	100-400	-	-	
Settlement, 5 days, %	T59	-	-	-	-	
Storage Stability Test, 24 hours, %		1 max.	1 max.	1 max.	1 max.	
Sieve Test, %		0.10 max.	0.10 max.	0.10 max.	0.10 max.	
Demulsibility, % (2)		60 min.	-	-	-	
Cement Mixing Test, %		-	-	-	-	
Coating Ability and Water Resistance		Dry Aggregate	-	-	-	-
		After Spraying	-	-	-	-
		Wet Aggregate	-	-	-	-
		After Spraying	-	-	-	-
Residue, %		63 min.	65 min.	65 min.	65 min.	
Oil Distillate, volume of emulsion, %		2.5 max.	8 max.	8 max.	8 max.	
DISTILLATION RESIDUE:						
Penetration, 25° C (77° F), tenths of mm		T49	100-200	100-250	40-90	200 min.
Ductility, 25° C (77° F), cm		T51	40 min.			
Solubility in trichloroethylene, %	T44	97.5 min.				
Float Test at 60° C (140° F), seconds (3)	T50	1200 min.				

Table 4: Requirements for Polymer Modified Emulsified Asphalts

Property	Test Method AASHTO (T), ASTM (D), or Other	Rapid-Setting				Quick-Setting
		Anionic		Cationic		
		702-3101P	702-3102P	702-4001P	702-4101P	702-4601P
		RS-2p	HFRS-2p	CRS-1p	CRS-2p	CQS-1hp
EMULSIONS:						
Viscosity, Saybolt Furol seconds	25° C (77° F)	-	-	20-100	-	20-100
	50° C (122° F)	75-400	75-400	-	100-400	-
Settlement, 5 days, %	T59	-	-	-	-	-
Storage Stability Test, 24 hours, %		1 max.	1 max.	1 max.	1 max.	1 max.
Sieve Test, %		0.10 max.	0.10 max.	0.10 max.	0.10 max.	0.10 max.
Particle Charge		-	-	Positive (1)	Positive	Positive (1)
Demulsibility, %	D244	60 min.	60 min.	40 min.	40 min.	-
Cement Mixing Test, %	T59	-	-	-	-	-
Residue, % (2)		63 min.	63 min.	60 min.	65 min.	62 min.
Oil Distillate, volume of emulsion, %		2.5 max.	2.5 max.	1.5 max.	2.5 max.	-
Classification Test	-	-	-	Passes	Passes	-
Polymer Content, %	-	-	-	3 min.	-	3 min.
Ring and Ball Softening Point, ° C	T53	-	-	-	-	60 min.
DISTILLATION RESIDUE:						
Penetration, 25° C (77° F), tenths of mm	T49	100-200	100-200	100-250	100-250	40-90
Ductility, 25° C (77° F), cm	T51	40 min.	40 min.	40 min.	40 min.	40 min.
Elastic Recovery, 10° C (50° F), %	D 6084	50 min	50 min.	50 min.	50 min.	40 min. (3)
Solubility in trichloroethylene, %	T44	97.5 min.	97.5 min.	97.5 min.	97.5 min.	97.5 min.
Float Test at 60° C (140° F), seconds	T50 (4)	-	1200 min.	-	-	-