

State: Louisiana	Materials: Re: Section 1002-Asphalt Materials
Date: 8/13/25	Web Address: www.dotd.state.la.us
Contact: Kris Wascom	Contact Info: Jason Davis, jason.davis@la.gov

Louisiana		Table 1: Requirements for Anionic Emulsified Asphalts									
Property	Test Method AASHTO (T), ASTM (D), or Other	Percent of Contract Unit Price									
		SS-1			SS-1h			AEP			
		Specs.	Deviations		Specs.	Deviations		Specs.	Deviations		
		100	80	50 or Remove (1)	100	80	50 or Remove (1)	100	80	50 or Remove (1)	
EMULSIONS:											
Viscosity, Saybolt Furol seconds	25 °C (77 °F)	T59	20-100	-		20-100	-				
	50 °C (122 °F)		-				15-150	10-15 101-200	9 - 201 +		
Settlement, 5 days, %	5 max.		-		5 max.	-		5 max.	-		
Storage Stability Test, 24 hours, %	-				1 max.	-					
Sieve Test, %	0.10 max.		-		0.10 max.	-	-		0.10 max.	-	
Cement Mixing Test, %	2 max.		-		2 max.	-					
Residue, %	57 min.		52-56	51 -	57 min.	52-56	51 -	50 min.	46-49	45 -	
Oil Distillate, volume of emulsion, %	-				25.0 max.	-					
DISTILLATION/EVAPORATION RESIDUE:											
Penetration, 25 °C (77 °F), tenths of mm	T49	100-200	88-99 201-212	87 - 213 +	40-90	30-39 91-100	29 - 101 +	250 +	-		
Ductility, 25 °C (77 °F), cm	T51	40 min.	26-39	25 -	40 min.	26-39	25 -	-			
Solubility in trichloroethylene, %	T44	97.5 min.	-		97.5 min.	-	97.5 min.		-		
NOTES:	1. At the option of the engineer.										

Louisiana		Table 2: Requirements for Cationic Emulsified Asphalts												
Property	Test Method AASHTO (T), ASTM (D), or Other	Percent of Contract Unit Price												
		Rapid-Setting			Medium-Setting			Slow-Setting						
		CRS-2			CMS-2			CSS-1			CSS-1h			
		Specs.	Deviations		Specs.	Deviations		Specs.	Deviations		Specs.	Deviations		
		100	80	50 or Remove (1)	100	80	50 or Remove (1)	100	80	50 or Remove (1)	100	80	50 or Remove (1)	
EMULSIONS:														
Viscosity, Saybolt Furol seconds	25 °C (77 °F)	-					20-100	-			20-100	-		
	50 °C (122 °F)	100-400	-		50-450	-								
Settlement, 5 days, %		5 max.	-		5 max.	-		5 max.	-		5 max.	-		
Sieve Test, %		0.10 max.	-		0.10 max.	-		0.10 max.	-		0.10 max.	-		
Particle Charge		Positive	-	Negative	Positive	-	Negative	Positive	-	Negative	Positive	-	Negative	
Residue, %		65 min.	61-64	60 -	65 min.	61-64	60 -	57 min.	52-56	51 -	57 min.	52-56	51 -	
Oil Distillate, volume of emulsion, %		3.0 max.	-		12.0 max.	-								
DISTILLATION RESIDUE:														
Penetration, 25 °C (77 °F), tenths of mm	T49	100-250	84-99 251-266	83 - 267 +	100-250	84-99 251-266	83 - 267 +	100-200	88-99 201-212	87 - 213 +	40-90	30-39 91-100	29 - 101 +	
Ductility, 25 °C (77 °F), cm	T51	80 min.	66-79	65 -	40 min.	26-39	25 -	40 min.	26-39	25 -	40 min.	26-39	25 -	
Viscosity, 135 °C, Pa·s	-	0.18 min.	0.13-0.17	0.12 -	-									
Solubility in trichloroethylene, %	T44	97.5 min.	-		97.5 min.	-		97.5 min.	-		97.5 min.	-		
NOTES:	1. At the option of the engineer.													

Table 3: Requirements for Polymer Modified Asphalt Emulsions

Property	Test Method AASHTO (T), ASTM (D), or Other	Percent of Contract Unit Price					
		Anionic			Cationic		
		SS-1P			CRS-2P (1)		
		Specs.	Deviations		Specs.	Deviations	
		100	80	50 or Remove (2)	100	80	50 or Remove (2)
EMULSIONS:							
Viscosity, Saybolt Furol Seconds, range	25 °C (77 °F)	20-100	-				
	50 °C (122 °F)	-	100-400	-			
Settlement, 5 days, %	T59	-	5 max.	-			
Storage Stability Test, 24 hours, %	T59	1 max.	-	1 max.	-		
Sieve Test, %	T59	0.10 max.	-	0.10 max.	-		
Particle Charge Test	T59	-	Positive	-	Negative		
Classification Test	T59	-	Pass	-	Fail		
Residue, %	T59	57 min (3)	-	56 - (3)	65 min. (4)	61-64 (4)	60 - (4)
Oil Distillate, volume of emulsion, %	T59	-	3.0 max.	-			
DISTILLATION RESIDUE:							
Penetration, 25 °C (77 °F), tenths of mm	T49	-	100-200	80-99 201-225	79 - 226 +		
Softening Point (Ring and Ball), °C	T53	-	38.0-52.0	32.1-37.9 52.1-58.9	32.0 - 59.0 +		
Solubility in trichloroethylene, %	T44	-	97.5 min.	-			
EVAPORATION RESIDUE:							
Penetration, 25 °C (77 °F), tenths of mm	T49	100-200	88-99 201-212	87 - 213 +	-		
Elastic Recovery, 10 °C (50 °F), %	T301	30 min.	-	29 -	58 min.	51-57	50 -
Force Ductility Ratio (f_2/f_1 , f_2 at second peak), 4 °C	T300	0.15 min.	-	0.14 -	0.30 min.	0.21-0.29	0.20 -
Solubility in trichloroethylene, %	T44	97.5 min.	-				

See Table 3 Notes on Page 4

TABLE 3 NOTES:	<ol style="list-style-type: none"> 1. The addition of latex, rubber, or other additives to emulsified polymerized asphalt will not be allowed. 2. At the option of the engineer. 3. Residue by Evaporation. 4. Residue by Distillation. Residue for Force Ductility and Elastic Recovery tests shall be obtained by Evaporation (Oven) rather than Distillation (Aluminum-alloy still.)
-----------------------	---

<i>Louisiana</i>		Table 4: Polymer Modified Emulsion Physical Properties		
Property		Test Method AASHTO (T), ASTM (D), or Other	Percent of Contract Unit Price	
			Specification	90% or Remove
EMULSIONS:				
Viscosity, Saybolt Furol Seconds	25 °C (77 °F)	T59	20-100	-
Residue, %			63 min.	62 -
RESIDUE FROM DISTILLATION:				
Penetration, 25 °C (77 °F), tenths of mm		T49	60-150	59 - 151 +
Elastic Recovery, 10 °C (50 °F), %		T301	58 min.	57 -
Solubility in trichloroethylene, %		T44	97.5 min.	-
NOTES:		None.		

Louisiana		Table 5: Requirements for Latex Modified Emulsified Asphalts			
Property	Test Method AASHTO (T), ASTM (D), or Other	Percent of Contract Unit Price			
		SS-1L			
		Specification	Deviation		
		100	80	50 or Remove (1)	
EMULSIONS:					
Viscosity, Saybolt Furol Seconds	25 °C (77 °F)	T59	20-100	-	
Storage Stability Test, 24 hours, %			1 max.	-	
Sieve, %			0.10 max.	-	
Residue, %			57 min.	-	56 -
RESIDUE FROM EVAPORATION:					
Penetration, 25 °C (77 °F), tenths of mm	T49	100-200	88-99 201-212	87 - 213 +	
Ductility, 25 °C (77 °F), cm	T51	50 min.	41-49	40 -	
Elastic Recovery, 10 °C (50 °F), %	T301	50 min.	-	49 -	
Softening Point (Ring and Ball), °C	T53	50 min.	45.1-49.9	45 -	
NOTES:	1. At the option of the engineer.				

Table 6: Requirements for Trackless Tack Coat Grade NTSS-1HM

Property	Test Method AASHTO (T), ASTM (D), or Other	NTSS-1HM		CBC-1HT		
		Specification	Deviation	Specification	Deviation	
		100% Pay	50% Pay or Remove (1)	100% Pay	50% Pay or Remove (1)	
EMULSIONS:						
Viscosity, Saybolt Furol Seconds	25 °C (77 °F)	T59	15-100	-	10-100	-
Settlement, 5 days, %			5.0 max.	-		
Storage Stability Test, 24 hours, %			1.0 max.	-	1.0 max.	-
Sieve, %	(2)		0.30 max.	-	0.30 max.	-
Residue, %	(3)		50 min.	49 -	50 min.	49 -
Oil Distillate, volume of emulsion, %			1.0 max.	-	1.0 max.	-
RESIDUE FROM DISTILLATION:						
Penetration, 25 °C (77 °F), tenths of mm	T49	20 max.	-			
Softening Point (Ring and Ball), °C	T53	65 min.	64 -	-		
Solubility in trichloroethylene, %	T44	97.5 min.	-			
DSR, 82 °C, 10 rad/s, G*/sin δ, kPa	T315	1.0 min.	.99-	-		
MSCR, 64 °C, (Jnr (3.2 kPa)	T350	-		2.0 max.	>2.0	
NOTES:	<ol style="list-style-type: none"> At the option of the engineer. Sieve Test may be waived if no application problems are present in the field. For CBC-1HT only: Exception to T59 Distillation- Bring the temperature on the lower thermometer slowly to 350 °F. Maintain at this temperature for 20 minutes. Complete total distillation in 60 +/- 5 minutes from the first application of heat. 					

Louisiana		Table 7: Requirements for Emulsified Petroleum Resin			
Property		Test Method AASHTO (T), ASTM (D), or Other	Percent of Contract Unit Price		
			EPR-1		
			Specification	Deviations	
			100	80	50 or Remove (1)
EMULSIONS:					
Viscosity, Saybolt Furol Seconds	25 °C (77 °F)	T59	15-100	10-15 101-150	9 - 151 +
Settlement, 5 days, %			5 max.	-	
Sieve, %			0.10 max.	-	
Particle Charge			Positive	-	Negative
Residue, %	(2)		57 min.	52-56	51 -
NOTES:		1. At the option of the engineer. 2. Residue by Evaporation.			