

<b>State:</b> New Jersey	<b>Materials: Re:</b> 902.01.02-03
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New Jersey		Table 1: Requirements for Anionic Emulsified Asphalts (1)							
Property	Test Method AASHTO (T), ASTM (D), or Other	Rapid-Setting		Medium-Setting			Slow-Setting		
		RS-1	RS-2	MS-1	MS-2	MS-2h	SS-1	SS-1h	
<b>EMULSIONS:</b>									
Viscosity, Saybolt Furol seconds	25° C (77° F)	T 59	20-100	-	20-100	100 min.	100 min.	20-100	20-100
	50° C (122° F)		-	75-400	-	-	-	-	-
Settlement, 5 days, %			-	-	-	-	-	-	-
Storage Stability Test, 24 hours, % (2)			1 max.	1 max.	1 max.	1 max.	1 max.	1 max.	1 max.
Sieve Test, % (2,3)			0.10 max.	0.10 max.	0.10 max.	0.10 max.	0.10 max.	0.10 max.	0.10 max.
Demulsibility, % (4)			60 min.	60 min.	-	-	-	-	-
Cement Mixing Test, %			-	-	-	-	-	2.0 max.	2.0 max.
Coating Ability and Water Resistance	Dry Aggregate		-	-	Good	Good	Good	-	-
	After Spraying		-	-	Fair	Fair	Fair	-	-
	Wet Aggregate		-	-	Fair	Fair	Fair	-	-
	After Spraying	-	-	Fair	Fair	Fair	-	-	
Residue, %		55 min.	63 min.	55 min.	65 min.	65 min.	57 min.	57 min.	
<b>DISTILLATION RESIDUE:</b>									
Penetration, 25° C (77° F), tenths of mm		T 49	90-150	90-150	100-200	100-200	40-90	90-250	40-90
Ductility, 25° C (77° F), cm		T 51	40 min.	40 min.	40 min.	40 min.	40 min.	40 min.	40 min.
Ash Content, %		T 111	1 max.						
<b>NOTES:</b>		<ol style="list-style-type: none"> <li>1. Refer to R5 for typical applications.</li> <li>2. This test requirement on representative samples is waived if successful application of the material has been achieved in the field.</li> <li>3. A maximum percentage of 0.30 is acceptable for samples taken at the point of use.</li> <li>4. The demulsibility test shall be performed within 30 days from the date of shipment. Use 35 ml, 0.02 N CaCl<sub>2</sub> solution.</li> </ol>							

Table 2: Requirements for Cationic Emulsified Asphalts (1)

Property	Test Method AASHTO (T), ASTM (D), or Other	Rapid-Setting		Medium-Setting		Slow-Setting		
		CRS-1	CRS-2	CMS-2	CMS-2h	CSS-1	CSS-1h	
<b>EMULSIONS:</b>								
Viscosity, Saybolt Furol seconds	25° C (77° F)	-	-	-	-	20-100	20-100	
	50° C (122° F)	20-100	100-400	50-450	50-450	-	-	
Settlement, 5 days, %	T 59	-	-	-	-	-	-	
Storage Stability Test, 24 hours, % (2)		1 max.	1 max.	1 max.	1 max.	1 max.	1 max.	
Sieve Test, % (2)		0.10 max.	0.10 max.	0.10 max.	0.10 max.	0.10 max.	0.10 max.	
Particle Charge		Positive	Positive	Positive	Positive	Positive	Positive	
Demulsibility, % (3)		40 min.	40 min.	-	-	-	-	
Cement Mixing Test, %		-	-	-	-	2.0 max.	2.0 max.	
Coating Ability and Water Resistance		Dry Aggregate	-	-	Good	Good	-	-
		After Spraying	-	-	Fair	Fair	-	-
		Wet Aggregate	-	-	Fair	Fair	-	-
		After Spraying	-	-	Fair	Fair	-	-
Residue, %		60 min.	65 min.	65 min.	65 min.	57 min.	57 min.	
Oil Distillate, volume of emulsion, %		3 max.	3 max.	12 max.	12 max.	-	-	
pH		T 200	-	-	-	-	-	-
<b>DISTILLATION RESIDUE:</b>								
Penetration, 25° C (77° F), tenths of mm	T 49	90-150	90-150	100-250	40-90	90-250	40-90	
Ductility, 25° C (77° F), cm	T 51	40 min.	40 min.	40 min.	40 min.	40 min.	40 min.	
Ash Content, %	T 111	1 max.						
<b>NOTES:</b>	1. Refer to R5 for typical applications. 2. This test requirement on representative samples is waived if successful application of the material has been achieved in the field. 3. Use 35 ml of 0.8% sodium dioctyl sulfosuccinate solution.							



New Jersey		Table 3: Requirements for High Float Emulsified Asphalt (1)					
Property		Test Method AASHTO (T), ASTM (D), or Other	Rapid-Setting	Medium-Setting			
			HFRS-2	HFMS-1	HFMS-2	HFMS-2h	HFMS-2s
<b>EMULSIONS:</b>							
Viscosity, Saybolt Furol seconds	25° C (77° F)	T 59	-	20-100	100 min.	100 min.	50 min.
	50° C (122° F)		75-400	-	-	-	-
Storage Stability Test, 24 hours, %	(2)		1 max.	1 max.	1 max.	1 max.	1 max.
Sieve Test, %	(2,3)		0.10 max.	0.10 max.	0.10 max.	0.10 max.	0.10 max.
Demulsibility, %	(4)		60 min.	-	-	-	-
Coating Ability and Water Resistance	Dry Aggregate		-	Good	Good	Good	Good
	After Spraying		-	Fair	Fair	Fair	Fair
	Wet Aggregate		-	Fair	Fair	Fair	Fair
	After Spraying		-	Fair	Fair	Fair	Fair
Residue, %			63 min.	55 min.	65 min.	65 min.	65 min.
Oil Distillate, volume of emulsion, %			-	-	-	-	1-7
<b>DISTILLATION RESIDUE:</b>							
Penetration, 25° C (77° F), tenths of mm		T 49	100-200	100-200	100-200	40-90	200 min.
Ductility, 25° C (77° F), cm		T 51	40 min.	40 min.	40 min.	40 min.	40 min.
Ash Content, %		T 111	1 max.				
Float Test at 60° C (140° F), seconds		T 50	1200 min.	1200 min.	1200 min.	1200 min.	1200 min.
<b>NOTES:</b>	<ol style="list-style-type: none"> <li>1. Refer to R5 for typical applications.</li> <li>2. This test requirement on representative samples is waived if successful application of the material has been achieved in the field.</li> <li>3. A maximum percentage of 0.30 is acceptable for samples taken at the point of use.</li> <li>4. The demulsibility test shall be performed within 30 days from the date of shipment. Use 35 ml, 0.02 N CaCl<sub>2</sub> solution.</li> </ol>						

Table 4: Requirements for Polymer Modified Tack Coat

Property		Test Method AASHTO (T), ASTM (D), or Other	Tack Coat
<b>EMULSIONS:</b>			
Viscosity, Saybolt Furol seconds	25° C (77° F)	T 59	20-100
	50° C (122° F)		-
Storage Stability Test, 24 hours, %			1 max.
Sieve Test, %			0.10 max.
Particle Charge			Positive
Demulsibility, % (1)			55 min.
Residue, % (2)			63 min.
<b>DISTILLATION RESIDUE:</b>			
Elastic Recovery, 10° C, %		T 301	58 min.
<b>NOTES:</b>		1. Use 35 ml of 0.8% sodium dioctyl sulfosuccinate solution. 2. Maintain a temperature of $177 \pm 5^\circ \text{C}$ for 15 minutes. Use an ASTM 16C thermometer to monitor the temperature of the emulsion during distillation.	