

State: Delaware	Specification: Re: Section 1016
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Contact: James Kwasnieski	Contact Info: james.kwasnieski@delaware.gov

Delaware		Table 2: Requirements for Cationic Emulsified Asphalts (1)					
Property	Test Method AASHTO (T), ASTM (D), or Other	Rapid-Setting			Slow-Setting		
		CRS-1	CRS-2	CRS-2P	CSS-1H	CSS-1HP	
EMULSIONS:							
Viscosity, Saybolt Furol seconds	25 °C (77 °F)	-	-	-	20-100	20-100	
	50 °C (122 °F)	20-100	100-400	100-400	-	-	
Settlement, 5 days, %	T59	-					
Storage Stability Test, 24 hours, % (2)		1 max.					
Sieve Test, % (2)		0.10 max.					
Particle Charge		Positive					
Demulsibility, % (3)		40 min.			-	-	
Cement Mixing Test, %		-	-	-	2.0 max.		
Coating Ability and Water Resistance		Dry Aggregate	-				
		After Spraying					
		Wet Aggregate					
		After Spraying					
Residue, %		60 min.	65 min.	65 min.	57 min.	57 min.	
Oil Distillate, volume of emulsion, %		3 max.	3 max.		-	-	
DISTILLATION RESIDUE:							
Penetration, 25 °C (77 °F), tenths of mm	T49	90-150	90-150	90-150	40-90	40-90	
Ductility, 25 °C (77 °F), cm	T51	40 min.	40 min.	-	40 min.	-	
Elastic Recovery, 25 °C (77 °F), % recovery (4)	T301	-	-	60 min.	-	25 min.	
Ash Content, %	T111	1.0 max.					
NOTES:	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.
4. Strait-sided, 5cm/min., 20 cm elongation, 5 minute hold.