

State: Washington (State)	Specification: Section 9-02 Bituminous Materials (starting on page 9-4)
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Washington		Table 1: Requirements for Cationic Emulsified Asphalt (1)		
Property		Test Method AASHTO (T), ASTM (D), or Other	CSS-1	CSS-1h
EMULSIONS:				
Viscosity, Saybolt Furol seconds	25°C (77°F)	T59	20-100	
	50°C (122°F)		-	
Storage Stability Test, 24 hours, %			1.0 max	
Sieve Test, %			0.10 max.	
Particle Charge (2)			Positive	
Residue by Distillation, %			57 min.	
Penetration, 25°C (77°F), tenths of mm		T49	90-250	40-90
Ductility, 25°C (77°F), cm		T51	40 min.	
Ash Content, %		T111	1 max.	
NOTES:		<ol style="list-style-type: none"> 1. WSDOT requires Cationic Emulsions to meet AASHTO M208. 2. If the particle charge test is inconclusive, material having maximum pH value of 6.7 when tested in accordance with ASTM E 70 will be acceptable. 		

Washington

Table 2: Requirements for Polymerized Cationic Rapid-Setting Emulsified Asphalt (1)

Property

Test Method
AASHTO (T), ASTM (D), or
Other

CRS-2P

EMULSIONS:

Viscosity, Saybolt Furol seconds (3)	25°C (77°F)	T59	-
	50°C (122°F)		100-400
Storage Stability Test, 24 hours, %			1.0 max
Sieve Test, %			0.30 max.
Demulsibility, % (2)			40 min.
Particle Charge			Positive
Residue by Distillation, % (3)			65 min.
Oil Distillate, volume of emulsion, % (3)			3 max.

Penetration, 25°C (77°F), tenths of mm (4)	T49	90-250
Elastic Recovery, % (4)	T301	50 min.

NOTES:

1. WSDOT requires Polymerized Cationic Rapid-Setting Emulsions to meet Standard Specification 9-02.1(6)A.
2. Use 35 ml of 0.8% sodium dioctyl sulfosuccinate solution.
3. Distillation modified to use 300 grams of emulsion heated to 350 ± 9°F and maintained for 20 minutes.
4. The residue material for T301 and T 49 shall come from the modified distillation per note 3.