
Special Provision to Item 300 Asphalts, Oils, and Emulsions



Item 300, "Asphalts, Oils and Emulsions" of the Standard Specifications is amended with respect to the clauses cited below. No other clauses or requirements of this Item are waived or changed.

Article 300.2. Materials, Section D. Emulsified Asphalt is supplemented by the following:

With all precertification samples of materials shown in Table 10B, submit certified test reports showing that the rejuvenating agent and latex meet the stated requirements. Submit samples of these raw materials if requested by the Engineer.

Table 10B
Polymer Modified Cationic Emulsified Asphalt

Property	Test Procedure	Emulsion Grade			
		CMS-1PC		CMS-2P	
		Min	Max	Min	Max
Polymer		Latex		Latex	
Viscosity, Saybolt Furol 77°F, sec. 122°F, sec.	T 72	50 -	350 -	- 50	- 400
Sieve Test, %	T 59	-	0.1	-	0.1
Particle charge	T 59	positive		positive	
Distillation Test ¹ : Residue by distillation, % by weight Oil distillate, % by volume of emulsion	T 59	60 -	- 0.5	65 -	- 0.5
Tests on residue from distillation: Penetration, 39.2°F, 200 g, 60 sec. Viscosity, 140°F, poise Elastic Recovery, 50°F, %	T 49 T 202 Tex-539-C	30 - -	- - -	40 - 45	- 5000 -
Tests on rejuvenating agent: Viscosity, 140°F, cSt Flash point, C.O.C., °F Saturates, % by weight Solubility in n-pentane, % by weight	T 201 T 48 D 2007 D 2007	50 380 - 99.0	175 - 30 -	50 380 - 99.0	175 - 30 -
Test on rejuvenating agent residue after TFO or RTFO: Weight Change, % Viscosity Ratio	T 240 or T 179	- -	6.5 3.0	- -	6.5 3.0
Tests on latex ² : Tensile strength, die C dumbbell, psi Change in mass after immersion in rejuvenating agent, 48 hours, 104°F, %	 D 412 ³ D 471	 500 -	 - 40 ⁴	 500 -	 - 40 ⁴

- Exception to AASHTO T 59: Bring the temperature on the lower thermometer slowly to 350°F ± 10°F. Maintain at this temperature for 20 minutes. Complete total distillation in 60 ± 5 minutes from first application of heat.
- Preparation of latex films: Use any substrate which produces a film of uniform cross-section. Apply latex using a drawdown tool that will deliver enough material to achieve desired residual thickness. Cure films for 14 days at 75°F and 50% relative humidity.
- Cut samples for tensile strength determination using a crosshead speed of 20 in./min.
- Specimen must remain intact after exposure and removal of excess rejuvenating agent.