

1015.20.5.4 Hard Penetration Asphalt Emulsions (SS-1vh). The hard penetration asphalt emulsions shall be in accordance with the following:

Emulsion Properties of Hard Penetration Asphalt Emulsions (SS-1vh)			
Test on Emulsion	Method	Min.	Max.
Viscosity, Saybolt Furol @ 25° C (77° F), s	AASHTO T 59	20	100
Storage Stability Test ^a , 24 hr., percent	AASHTO T 59	--	1.0
Sieve Test, percent	AASHTO T 59	--	0.30
Residue by Distillation, percent	AASHTO T 59	50	--
Oil Distillate by Distillation, percent	AASHTO T 59	--	1
Tests on Residue from Distillation	Method	Min.	Max.
Softening Point, ° F	AASHTO T 53	149	200
Penetration 25° C (77° F), 100 g, 5 s	AASHTO T 49	--	40
G* / sin delta @ 76° C – 10 rad/sec, kPa	AASHTO T 315	1.0	--
Solubility in Trichloroethylene ^b , %	AASHTO T 44	97.5	--

^aIn addition to AASHTO T 59, upon examination of the test cylinder, and after standing undisturbed for 24 hours, the surface shall show no appreciable white, milky colored substance and shall be homogeneous brown color throughout. The storage stability test may be waved provided the asphalt emulsion storage tank at the project site has adequate provisions for circulating the entire contents of the tank, provided satisfactory field results are obtained.

^bIn lieu of performing AASHTO T 44, AASHTO T 111, Ash in Bituminous Material, may be performed with a maximum allowable percent ash of 1.0 percent.