

# PASS<sup>0</sup> Specifications

PASS MFG IN ACCORDANCE WITH UNITED STATES PATENT #5, 180, 428  
AND MEETING THE FOLLOWING

<b><u>Test on Emulsion</u></b>	<b>Method</b>	
Viscosity @77 (SFS)	ASTM D244	30 - 250
Residue, w%, min.	ASTM D244	65
pH	ASTM E70	2.0-5.0
Sieve, w%, max.	ASTM D244	0.1
Oil distillate, w%, max.	ASTM D244	0.5
<b>Test on Residue<sup>(1)</sup></b>		
Viscosity @ 140°F, P, max.	ASTM D2170	400-1200
Penetration @ 39.2°F min.	ASTM D5	90
Modified Torsional Recovery <sup>(1)</sup> , %, min. or Elastic Recovery on residue by distillation <sup>(2,3)</sup> , %, min.	CA332 AASHTO T59, T301	50 70
Toughness @ 77°F, N-m	ASTM P243	2.0
Tenacity @ 77°F, N-m	ASTM P243	2.0
Asphaltenes, w%, min.	ASTM D2006	18.0
Saturates, w%, max.	ASTM D2006	16.0

<sup>(1)</sup> California test method CA331 for recovery of residue. Torsional recovery measurement shall include first 30 seconds.

<sup>(2)</sup> Exception to AASHTO T59: Bring the temperature on the lower thermometer slowly to 350° F plus or minus 10° F. Maintain at this temperature for 20 minutes. Complete total distillation in 60 plus or minus 5 minutes from first application of heat.

<sup>(3)</sup> Elastic Recovery @ 10° C (50° F): Hour glass sides, pull 20 cm, hold 5 minutes then cut, let sit 1 hour.