

HF150P POLYMER MODIFIED ASPHALT EMULSION

Test	Polymer Modified Emulsion 1996				Polymer Modified Emulsion 1997				Polymer Modified Emulsion 1998				Polymer Modified Emulsion 1999			
	1		2		1		2		1		2		1		2	
	Average	S _x	S _r	S _R	Average	S _x	S _r	S _R	Average	S _x	S _r	S _R	Average	S _x	S _r	S _R
301P - Saybolt-Furol Viscosity @ 50°C (s)	75.0	16	11	18	85.6	22	21	27	91.3	15	10	17	83.0	7	4	7
302P - Residue by Distillation (% by mass)	70.1	0.73	0.91	0.97	69.9	0.57	0.22	0.59	68.2	0.35	0.32	0.44	66.9	0.26	0.19	0.30
303P - Total Distillation Time (minutes)	60	3.8	2.0	4.1	64	12.6	2.9	12.7	61	2.5	2.6	3.2	60	2.4	2.4	3.1
304P - Oil Portion of Distillate (% by Volume of Emulsion)	1.2	0.34	0.14	0.35	1.2	0.28	0.14	0.30	1.5	0.28	0.25	0.35	1.3	0.40	0.07	0.41
305P - Demulsibility, 50 mL, 5.55 g/CaCl ₂ (% by Mass)	95.6	3.3	2.9	3.9	94.9	8.8	1.3	8.9	93.9	4.4	2.6	4.9	95.1	3.7	2.3	4.2
306P - Penetration of Residue @ 25°C, 100g, 5s (dmm)	251	17	10	19	173	12	5	12	189	12	7	14	203	18	5	18
307P - Residue Conditioning Time in Air (minutes)	90.0	0.0	0.0	0.0	88.1	8.1	0.4	8.1	88.1	10.3	4.2	10.9	90.0	0.0	0.3	0.3
308P - Residue Conditioning Time in Water Bath (minutes)	90.0	0.0	0.0	0.0	87.9	8.0	0.2	8.0	87.2	9.6	0.6	9.6	90.0	0.1	0.2	0.2
309P - Apparent Viscosity @ 60°C (Pa•s)	117	50	15	51	244	60	36	66	262	37	35	47	285	90	32	93
310p - Sieve Test	0.01	0.0085	0.0067	0.0097	0.03	0.0394	0.0354	0.0467	0.01	0.0120	0.0093	0.0142	0.02	0.0278	0.0385	0.0419
311P - Float Test (s)	1352	480	160	490	1567	731	0	731	2698	4237	1556	4423	2260	2777	0	2777
312P - Solubility in Trichloroethylene (%)	99.9	0.071	0.054	0.080	99.9	0.059	0.032	0.063	99.9	0.113	0.079	0.129	99.8	0.184	0.233	0.264
313P - Ash Content	0.42	0.26	0.15	0.29	0.53	0.05	0.07	0.07	0.47	0.19	0.05	0.20	0.47	0.12	0.04	0.12
314P - Elastic Recovery (%)	72	5.1	2.0	5.3	65	1.8	0.6	1.8	58	3.7	3.1	4.5	72	9.8	6.8	11.3

Legend
1 Standard Deviation
2 Repeatability Standard Deviation
3 Reproducibility Standard Deviation
4 95% Confidence Limits for Repeatability (k-stat)
5 95% Confidence Limits for Reproducibility (h-stat)

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