

150-200A ASPHALT CEMENT

Test	Asphalt Cement 1996				Asphalt Cement 1997				Asphalt Cement 1998				Asphalt Cement 1999					
	1		2		3		1		2		3		1		2		3	
	Average	Sx	Sr	SR	Average	Sx	Sr	SR	Average	Sx	Sr	SR	Average	Sx	Sr	SR		
101 - Penetration @ 25°C, 100g, 5s (dmm)	166	5.3	3.4	5.81	173	7.0	2.2	7.20	152	7.0	1.3	7.04	163	15.5	1.5	15.59		
102 - Penetration @ 4°C, 100g, 5s (dmm)	21	15	1.6	15	18	10	1.0	10	19	16	1.9	16	16	3	1.2	3		
103 - Solubility in Trichloroethylene (%)	99.97	0.016	0.025	0.025	99.96	0.042	0.012	0.043	99.96	0.038	0.045	0.053	99.94	0.076	0.029	0.079		
104 - Specific Gravity 25/25°C	1.030	0.0028	0.0021	0.0032	1.025	0.0019	0.0013	0.0021	1.024	0.0041	0.0010	0.0042	1.031	0.0033	0.0017	0.0036		
105 - Kinematic Viscosity @ 135°C (mm ² /s)	248	14	4.1	15	237	8	2.7	8	259	10	3.4	10	273	21	10.0	22		
106 - Absolute Viscosity @ 60°C (Pa·s)	77.6	3.3	1.3	3.4	69.1	2.4	1.5	2.7	82.2	5.3	2.0	5.6	88.1	12.1	2.3	12.3		
107 - TFO Loss on Heating (%)	0.297	0.10	0.034	0.10	0.216	0.06	0.026	0.07	0.219	0.08	0.017	0.09	0.378	0.09	0.036	0.10		
108 - TFO Penetration of Residue @ 25°C, 100g, 5s (dmm)	93	8.7	1.9	8.8	102	8.7	2.7	9.0	85	4.4	2.4	4.8	87	5.6	1.8	5.8		
109 - TFO Penetration of Residue @ 4°C, 100g, 5s (dmm)	11	2.2	0.73	2.2	10	2.3	0.87	2.4	10	2.7	0.66	2.8	10	2.6	0.97	2.7		
110 - TFO Percent of Original Penetration (%)	56	5.1	1.4	5.2	59	6.3	1.8	6.5	56	3.1	1.7	3.4	55	3.9	1.1	4.0		
111 - TFO Kinematic Viscosity of Residue (mm ² /s)	376	42	8.3	43	333	25	12.0	27	389	48	7.9	48	417	42	20.7	45		
112 - TFO Absolute Viscosity of Residue (Pa·s)	205.0	52	36	58	147.9	24	6	25	205.3	31	9	32	239.0	30	13	32		
113 - RTFO Loss on Heating (%)	0.290	0.047	0.008	0.047	0.254	0.056	0.010	0.056	0.198	0.051	0.018	0.053	0.473	0.096	0.058	0.107		
114 - RTFO Penetration of Residue @ 25°C, 100g, 5s (dmm)	95	3.2	0.82	3.3	101	3.1	0.94	3.1	83	3.0	1.87	3.4	87	15.3	3.33	15.5		
115 - RTFO Penetration of Residue @ 4°C, 100g, 5s (dmm)	10	2.8	1.0	2.9	14	13.4	0.6	13.4	9	1.0	0.8	1.2	10	2.1	0.3	2.9		
116 - RTFO Percent of Original Penetration (%)	57	2.9	1.3	3.0	58	2.7	0.8	2.7	56	3.8	1.8	4.1	51	4.0	2.1	4.4		
117 - RTFO Kinematic Viscosity of Residue (mm ² /s)	367	18	6.3	19	339	16	25.2	26	370	14	7.5	15	406	20	13.9	23		
118 - RTFO Absolute Viscosity of Residue (Pa·s)	189.6	15	3.9	15	141.6	32	6.9	33	201.6	3	15.3	15	239.9	15	24.0	24		

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)

TFO = Thin Film Oven
RTFO = Rolling Thin Film Oven

DISCLAIMER

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