



### Analyze and Data Sheet of Bitumen SS1

Method	Test	Specs Min/Max	Result
T-59/D-244	Viscosity, SFS@77°F.s	20/100	23
T-59/D-244	Storage Stability, 24-h%	.../0.1	0.03
T-59/D-244	Cement Mixing, %	.../0.2	0.09
T-59/D-244	Sieve, %	.../0.01	0.03
T-59/D-244	Residue by Distillation, %	57/...	60.0
Tests on Residue From Distillation			
T-49/D-5	Penetration, 77°F	40/90	56
T-5/D-113	Ductility, 77°F	40/...	89
T-44/D-2042	Solubility, %	97.5/...	99.5

### Analysis of Bitumen CMS

Property	Unit	Spec.	Method
Kinematic Viscosity 50°C	Centistokes (CST)	50-450	ASTM D2170
Residue on Sieving, 600 Micron IS	Mass Percentage (%)	0.1 Max	ASTM D244
Storage Stability After 24 Hours	Percentage (%)	2 Max	ASTM D244
Binder Residue by Evaporation	Percentage (%)	65 Min	ASTM D244
Setting Time	Minutes (')	30	ASTM D244
Penetration, 50 °C	1/10 Millimeters(mm)	40-90	ASTM D5

### Analysis of Bitumen CRS

Property	Unit	Spec.	Method
Kinematic Viscosity 50°C	Centistokes (CST)	20-100	ASTM D2170
Residue on Sieving, 600 Micron IS	Mass Percentage (%)	0.05 Max	ASTM D244
Storage Stability After 24 Hours	Percentage (%)	2 Max	ASTM D244
Binder Residue by Evaporation	Percentage (%)	60 Min	ASTM D244
Setting Time	Minutes (')	15	ASTM D244
Penetration, 50 °C	1/10 Millimeters(mm)	60-200	ASTM D5

### Cationic Bitumen (Asphalt) Emulsion CMS2

Property	Min	Max	Test Method
<b>Test on Emulsions</b>			
Viscosity, Saybolt Furol at 25 °C, SFS	–	–	ASTM D244
Viscosity, Saybolt Furol at 25 °C, SFS	40	450	ASTM D3143
Storage Stability Test, 24-h, %	–	1	ASTM D6930
Demulsibility, 35 mL, 0.8 % Dioctyl Sodium Sulfosuccinate, %	–	–	ASTM D6936
<b>Coating Ability and Water Resistance</b>			
Coating, Dry Aggregate	Good	–	ASTM D244
Coating, After Spraying	Fair	–	ASTM D244
Coating, Wet Aggregate	Fair	–	ASTM D244
Coating, After Spraying	Fair	–	ASTM D244
Particle Charge Test	Positive		ASTM D244
Sieve Test, %	–	0.1	ASTM D6933
Cement Mixing Test, %	–	–	ASTM D6935
<b>Distillation</b>			
Oil Distillate, by Volume of Emulsion, %	–	12	ASTM D6997
Residue, %	65	–	ASTM D244
<b>Tests on Residue From Distillation Test</b>			
Penetration, 25°C (77°F), 100 g, 5 s	100	250	ASTM D5
Ductility, 25°C (77°F), 5 cm/min, cm	40	–	ASTM D113
Solubility in Trichloroethylene, %	97.5	–	ASTM D2042