



Materials Specification For: Emulsified Asphalt

| Property | ASTM | Specifications | | | | | |
|---|--------------------------|----------------|------------------|----------------------|----------------------|----------------------|----------------------|
| | | CSS-1h | SS-1 | HF-100S | HF-150S | HF-250S | HF-350S |
| Test on Emulsion | | | | | | | |
| Flash Point °C | D1310 | -- | -- | -- | -- | -- | -- |
| Saybolt Viscosity @ 25°C, SFs | D88 | 20-100 | 20-60 | | | | |
| @ 50°C, SFs | D88 | | | 35-150 | 35-150 | 35-150 | 75-400 |
| Residue by Distillation, % | D 6997 | 57 Min | 55 Min | 62 Min | 62 Min | 62 Min | 65 min |
| Oil Distillate by Volume, % | D 6997 | 3 Max | -- | 1 - 4 | 1 - 4 | 1 - 6 | 1.5 - 6 |
| Storage Stability 24 h. % | D 6930 | 1 Max | | 1.5 Max | 1.5 Max | 1.5 Max | 1.5 Max |
| 5 day % | D 6930 | 5 Max | 3 Max | | | | |
| Sieve Test (Ref. 850µm)% | D 6933 | 0.1 Max | 0.1 Max | 0.1 Max | 0.1 Max | 0.1 Max | 0.1 Max |
| Particle Charge | D 7402 | positive | -- | -- | -- | -- | -- |
| Coating Test | D244 Section 22-29 | 80% Min | No separation | -- | -- | | -- |
| Tests on Residue by Distillation (15 min. at 260°C) | | | | | | | |
| Penetration at 25°C, dmm | D5 | 40-125 | 100-250 | 100-175 ¹ | 150-250 ¹ | 250-500 ¹ | 350-750 ¹ |
| Solubility % | D2042 | 97.5 Min | 97.5 Min | 97.5 Min | 97.5 Min | 97.5 Min | 97.5 Min |
| Ductility at 25°C, mm | D113 | 400 Min | 400 Min | -- | -- | -- | -- |
| Float Test at 60°C s | D139 ² | -- | -- | 1200 Min | 1200 Min | 1200 Min | 1200 Min |

NOTE 1 Measured penetration greater than 500 dmm will be reported as ">500".

NOTE 2 ASTM D-139 except the residue is poured at 260° C directly into the float collar and not through a 300 µm sieve, and after the regular cooling procedures is placed in a float bath @ 60°C rather than 50°C

NOTE 3 Temperature to arrive at site shall be between 55-65°C

Approved:

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