Medium Curing Cutback Asphalts  Product Data Sheet

Description and Physical Properties
Medium curing cutback asphalts are blends of selected asphalts and solvents. They are used for a variety of applications, including tack, patch mixes and cool temperature surface treatments.

Specifications
Conform to Texas Department of Transportation Specifications-Item 300.2:

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Procedure</th>
<th>Type–Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>MC-30</td>
</tr>
<tr>
<td>Kinematic viscosity, 140°F, cSt</td>
<td>T 201</td>
<td>30 – 60</td>
</tr>
<tr>
<td>Water, %</td>
<td>T 55</td>
<td>– 0.2</td>
</tr>
<tr>
<td>Flash point, T.O.C., °F</td>
<td>T 79</td>
<td>100 – 150</td>
</tr>
</tbody>
</table>

Distillation test:
- Distillate, percentage by volume of total distillate to 680°F
  - to 437°F
    - MC-30: 25
    - MC-250: –
    - MC-800: –
    - MC-3000: –
  - to 500°F
    - MC-30: 55
    - MC-250: 15
    - MC-800: 55
    - MC-3000: 35
  - to 600°F
    - MC-30: 75
    - MC-250: 60
    - MC-800: 87
    - MC-3000: 45
- Residue from distillation, volume %
  - MC-30: 50
  - MC-250: –
  - MC-800: 60
  - MC-3000: 75
- Tests on distillation residue:
  - Penetration, 100 g, 5 sec., 77°F
    - T 49
    - MC-30: 120
    - MC-250: 250
    - MC-800: 250
    - MC-3000: 250
  - Ductility, 5 cm/min., 77°F, cm
    - T 51
    - MC-30: 100
    - MC-250: –
    - MC-800: 100
    - MC-3000: 100
  - Solubility in trichloroethylene, %
    - T 44
    - MC-30: 99.0
    - MC-250: 99.0
    - MC-800: 99.0
    - MC-3000: 99.0
  - Spot test Tex-509-C
    - Neg.

1. If the penetration of residue is more than 200 and the ductility at 77°F is less than 100 cm, the material is acceptable if its ductility at 60°F is more than 100 cm.

Typical Material Use

<table>
<thead>
<tr>
<th>Material Application</th>
<th>Typically Used Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface treatment (cool weather)</td>
<td>MC-250, MC-800, MC-3000</td>
</tr>
<tr>
<td>Patching mix</td>
<td>MC-800</td>
</tr>
<tr>
<td>Prime</td>
<td>MC-30</td>
</tr>
</tbody>
</table>

Storage and Application Temperatures

<table>
<thead>
<tr>
<th>Type–Grade</th>
<th>Application</th>
<th></th>
<th>Storage Maximum (°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Recommended Range, °F</td>
<td>Maximum Allowable (°F)</td>
<td></td>
</tr>
<tr>
<td>MC-30</td>
<td>70 – 150</td>
<td>175</td>
<td>175</td>
</tr>
<tr>
<td>MC-250</td>
<td>125 – 210</td>
<td>240</td>
<td>240</td>
</tr>
<tr>
<td>MC-800</td>
<td>175 – 260</td>
<td>275</td>
<td>275</td>
</tr>
<tr>
<td>MC-3000</td>
<td>225 – 275</td>
<td>290</td>
<td>290</td>
</tr>
</tbody>
</table>

Storage and Handling
Before being filled, tanks and trucks should be examined for possible contaminants. Cutback asphalts should be kept away from ignition sources.

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