Method of Test For
DETERMINING THE ASPHALT CONTENT OF ASPHALT MIXTURE BY THE IGNITION METHOD

DOTD Designation: TR 323

This method of test determines the asphalt content of asphalt paving mixtures and pavement samples by removing the asphalt cement by ignition in a furnace. The asphalt content is expressed as percent by mass of moisture free mixtures.

DOTD TR 323 is identical to AASHTO T 308 except for the following provisions:

A. Section 1, Scope is amended to include:

1.4 The technician may use Method A or Method B. However, Method B is considered the referee method in case of discrepancies.

B. Section 2, Reference Documents is amended to include:

DOTD TR 319 – Determination of the Moisture Content of Asphalt Concrete (Loose Mix)
All references to AASHTO T 329 in the document are replaced with DOTD TR 319.

C. Section 5, Apparatus, Section 5.3 is replaced with the following:

5.3 Oven – Capable of maintaining 110 +/- 5°C (230 +/- 9°F) and 150 +/- 5°C (302 +/- 9°F).

D. Section 6, Sampling, is amended as follows:

6.1 This section is amended to read: “Obtain samples of freshly produced asphalt mixture or roadway cores in accordance with AASHTO T 168.”

6.3 Insert the following after the first sentence: “For cores, the oven temperature may be increased to 150 +/- 5°C (302 +/- 9°F). Carefully separate the sample in a large, flat pan while periodically returning the pan to the oven to facilitate separation of the aggregate particles, and dry to a constant mass.”

Table 1, Mass Requirements is replaced with the following:
Table 1
Size of Test Specimen

<table>
<thead>
<tr>
<th>Nominal Maximum Aggregate Size, mm</th>
<th>Nominal Maximum Aggregate Size, U.S. Standard</th>
<th>Minimum Mass of Test Specimen, g</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.75</td>
<td>No. 4</td>
<td>1200</td>
</tr>
<tr>
<td>9.5</td>
<td>3/8 in.</td>
<td>1200</td>
</tr>
<tr>
<td>12.5</td>
<td>½ in.</td>
<td>1500</td>
</tr>
<tr>
<td>19.0</td>
<td>¾ in.</td>
<td>2000</td>
</tr>
<tr>
<td>25.0</td>
<td>1 in.</td>
<td>2500</td>
</tr>
<tr>
<td>37.5</td>
<td>1 ½ in.</td>
<td>3000</td>
</tr>
</tbody>
</table>

E. Section 7, Test Procedures is amended as follows:

7.3 This section is amended with the following: “For recycled asphalt pavement (RAP) samples, a correction factor of 0.4 is assumed for determining the asphalt content of the RAP.”

7.8 This section is amended with the following: “If the furnace internal scale is not present, does not function, or does not agree with the total mass recorded in Section 7.6 within +/- 5 g, use Method B.”

F. Section 8, Test Procedures

8.3 This section is amended with the following: “For recycled asphalt pavement (RAP) samples, a correction factor of 0.4 is assumed for determining the asphalt content of the RAP.”

G. Section 10, Report, is amended with the following:

10.1.8 Date
10.1.9 Identification of plant, mix type, JMF, JMF sequence number, and sample number

Normal Test Reporting Time is 3 hours for test specimens and 1 day for establishing correction factors.