
ATTI - PERFORMANCE CHECKLIST

AASHTO T 304-22 – Uncompacted Void Content of Fine Aggregate

- Sect. **Calibration of Cylindrical Measure**
- 8.1- 1. Apply a light coat of grease to the top edge of the dry, empty measure. Weigh
8.2 the measure, grease and glass plate to the nearest 0.1 g (Sect. 6.7). Fill the
measure with freshly boiled, deionized water at a temperature of 18° to 24°C.
Record the temperature of the water. Place glass plate on measure, being sure
no air bubbles remain. Dry the outer surface and determine the mass to the
nearest 0.1 g. Determine the volume to the nearest 0.1 mL.
- Sample Preparation Method A**
- 7.1 2. The sample is washed over a #100 or #200 sieve in accordance with T 11 and
then dried and sieved according to T27.
- 9.1 3. Weigh out and combine the quantities according to the table in 9.1.
- 10.1 4. **Procedure:** Mix each test sample with the spatula until it appears
homogeneous. Use a finger to block the opening of the funnel. Pour the test
sample into the funnel. Level the material in the funnel with the spatula.
Remove the finger and allow the sample to fall freely into the cylindrical
measure.
- 10.2 5. Strike off excess from the cylindrical measure by a rapid single pass of the
spatula with the width of the blade vertical, keeping the straight part of its
edge horizontal and in light contact with the top of the measure. Until this
operation is complete, exercise care to avoid vibration or any disturbance that
could cause compaction of the fine aggregate. Brush the outside of the
container and determine the mass to the nearest 0.1g. **Note:** After strike off,
the cylindrical measure may be tapped lightly to make it easier to weigh
without spilling.
- 10.3 6. Recombine the sample from the retaining pan and cylindrical measure and
repeat the procedure. The results of the two runs are averaged.