
ATTI - PERFORMANCE CHECKLIST

AASHTO T 85-22 – Specific Gravity and Absorption of Coarse Aggregate

Sect. **Sampling**

- 7.2 1. Thoroughly mix the sample and reduce it to the approximate quantity needed using procedures in R76. Reject all material passing the #4 sieve by dry sieving and thoroughly washing.
- 7.3 2. The minimum mass of the test sample is in the table.

Sect. **Test Procedure**

- 8.1 3. Dry the test sample to constant mass according to T255 at 110 +/- 5C (230 +/-9 F), cool in air at room temperature for 1-3 hours.
- 8.1 4. Immerse the aggregate in water at room temperature for 15-19 hours.
- 8.3 5. Remove the test sample from the water and roll it in a large absorbent cloth until all visible films of water are removed. Wipe the larger particles individually. A moving stream of air may be used to assist in the drying operation. Take care to avoid evaporation of water from aggregate pores.
- 8.3 6. If the test sample dries past the SSD condition, immerse in water for 30 minutes, and then resume the surface drying process.
- 8.3 7. Record this and all subsequent masses to the nearest 1.0 grams or 0.1% of the sample mass, whichever is greater.
- 8.4 8. After determining the mass, immediately place the SSD sample in the sample container and determine its mass in water at 23.0+/- 1.7 C (73.4 +/-3F).
- 8.4 9. Take care to remove all entrapped air before determining the mass by shaking the container while immersed. Maintain the water level in the bath at the overflow depth to obtain a constant water level throughout the test.

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- 8.5 10. Dry the sample to constant mass according to T255 at $110 \pm 5\text{C}$ ($230 \pm 9^\circ\text{F}$), and cool in air at room temperature 1 to 3 hours or until the aggregate has cooled to a temperature that is comfortable to handle.

- 8.6 11. Determine the mass to the nearest 1.0 grams.