

APPARATUS

- 1. Sample Container (One of the following):
  - (a) Wire basket of 3.35 mm mesh or finer? ..... \_\_\_\_\_
  - or (b) Bucket of approx. equal breadth and height, capacity 4 to 7 L, for up to 37.5 mm material (if needed)?..... \_\_\_\_\_
  - or (c) Larger container that prevents trapping air when submerged for plus 37.5 mm material (if needed)?..... \_\_\_\_\_
- 2. Water Tank:
  - (a) Capable of completely submerging the sample container? ..... \_\_\_\_\_
- 3. Suspension Apparatus:
  - (a) Of suitable design and in good condition?..... \_\_\_\_\_
  - (b) Center of suspension apparatus properly located with respect to center of balance pan or other point of contact with balance? ..... \_\_\_\_\_
- 4. Immersion water, temperature is  $23 \pm 2^{\circ}\text{C}$ ? ..... \_\_\_\_\_
- 5. Large absorbent cloth?..... \_\_\_\_\_
- 6. Balance, sensitive, readable, and accurate to 0.05% of sample weight or 0.5 g (greater)?. \_\_\_\_\_
- 7. Sieves, 4.75 mm or other sizes as needed?..... \_\_\_\_\_
- 8. Oven, maintains  $110 \pm 5^{\circ}\text{C}$ ? ..... \_\_\_\_\_

COMMENTS:

PROCEDURE

- 1. Sample obtained by ASTM C702? ..... \_\_\_\_\_
- 2. Screened on 4.75 mm sieve (Or 2.36 mm sieve if sample contains substantial quantities of minus 4.75 mm material)? ..... \_\_\_\_\_
- 3. Sample weight as follows: 13.2 mm or less - 2 kg; 19.0 mm - 3 kg; 26.5 mm - 4 kg; 37.5 mm - 5 kg?..... \_\_\_\_\_
- 4. **Prepared sample soaked in room temperature water for 24 ± 4hrs**..... \_\_\_\_\_
- 5. **Dust and coatings thoroughly washed from surface of particles?** ..... \_\_\_\_\_
- 6. **Sample placed in container and set in water bath at 23 ± 1.7°C? ( Mass C)**..... \_\_\_\_\_
- 7. **Care taken to remove any entrapped air?** ..... \_\_\_\_\_
- 8. **Sample weighed in water to nearest 0.5g , all subsequent masses to nearest 0.5g?...** \_\_\_\_\_
- 9. **Placed on large absorbent cloth?**..... \_\_\_\_\_
- 10. **Rolled in cloth so all visible films of water are removed?**..... \_\_\_\_\_
- 11. **Evaporation avoided?** ..... \_\_\_\_\_
- 12. **Sample weighed immediately? ( Mass B)**..... \_\_\_\_\_
- 13. **Dried to constant mass at 110 ± 5° C ?**..... \_\_\_\_\_
- 14. **Cool at room temperature for 1-3 hours and weigh ( Mass A)**..... \_\_\_\_\_
- 15. **Lab says proper book formulas used in calculations?** ..... \_\_\_\_\_

Use of Laboratory Control Aggregate

- 1. Laboratory has a supply of control aggregate? Source: Brechin..... \_\_\_\_\_
- 2. Control sample tested every 10 samples or at least every week when samples tested?..... \_\_\_\_\_
- 3. Control sample mean relative density is 2.669, range is 2.655 to 2.685?..... \_\_\_\_\_
- 4. Control sample mean absorption is 0.71%, range is 0.60 to 0.83%?..... \_\_\_\_\_
- 5. Control chart showing data for last 20 samples of reference material?..... \_\_\_\_\_
  - Mean relative density for last 20 samples ..... \_\_\_\_\_
  - Low relative density for last 20 samples..... \_\_\_\_\_
  - High relative density for last 20 samples ..... \_\_\_\_\_
  - Mean absorption for last 20 samples ..... \_\_\_\_\_
  - Low absorption for last 20 samples ..... \_\_\_\_\_
  - High absorption for last 20 samples..... \_\_\_\_\_

COMMENTS: