



Performance Examination - Aggregate

Standard Test Method for Materials Finer than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing (ASTM C117-17)

Candidate Name: _____ NICET ID: _____

Apparatus	Trial 1	Trial 2
Balance Readable to 0.1 g or 0.1% of test load, whichever is greater		
Sieves (Nest of 2) a. 75- μ m (No. 200) b. Upper: 1.18 mm (No. 16)		
Oven Maintains uniform temperature of 110 \pm 5°C (230 \pm 9°F)		
Wetting Agent (for Procedure B only)		
Mechanical Washing Apparatus (optional) Results are consistent with those obtained using manual methods; Degradation of the sample is avoided.		

Procedures	Trial 1	Trial 2
Procedure A		
1. Test sample obtained by Practice C702		
2. Test sample mass conforms to table below <i>If the nominal maximum size of the aggregate to be tested is not listed below, the next larger size listed shall be used to determine sample size.</i>		

Nominal Maximum Size	Minimum Mass, g
4.75 mm (No. 4) or finer	300
Greater than 4.75 mm (No. 4) to 9.5 mm ($\frac{3}{8}$ in.)	1000
Greater than 9.5 mm ($\frac{3}{8}$ in.) to 19.0 mm ($\frac{3}{4}$ in.)	2500
Greater than 19.0 mm ($\frac{3}{4}$ in.) to 37.5 mm (1 $\frac{1}{2}$ in.)	5000

3. Dry test sample to constant mass at temperature of 110 \pm 5°C (230 \pm 9°F)		
4. Test sample mass determined to 0.1%		
5. Place in container and cover with water		
6. Vigorously agitate contents of container		
7. Complete separation of coarse and fine particles		
8. Pour wash water through nested sieves		

Examiner Name: _____ Examiner Signature: _____ Date: _____



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Procedures (continued)	Trial 1	Trial 2
9. Check wash water is free of coarse particles		
10. Continue operation until wash water is clear		
11. Return material on sieves to the washed sample		
12. Decant excess water from washed sample through 75-µm (No. 200) sieve		
13. Dry washed aggregate to constant mass at 110 ± 5°C (230 ± 9°F)		
14. Determine washed aggregate mass to 0.1%		
15. Calculate amount of material passing 75-µm (No. 200) sieve by washing as follows: $A = [(B - C)/B] \times 100$ A = % of material finer than 75-µm (No. 200) sieve by washing B = original dry mass of sample, g C = dry mass of sample after washing, g		
Procedure B		
1. Prepare sample using same steps as Procedure A		
2. Add wetting agent		

First Attempt: Pass: _____ Fail: _____ Second Attempt: Pass: _____ Fail: _____

Comments:

Examiner Name: _____ Examiner Signature: _____ Date: _____