

Performance Examination - Aggregate

Standard Method of Test for Clay Lumps and Friable Particles in Aggregates (AASHTO T 112-00) [ASTM C142 / C142M-17]

Candidate Name:	NICET ID:	NICET ID:		
Арра	ratus	Trial 1	Trial 2	
Balance Readable accurate to 0.1% of sample mass, or better				
Sieves 4.75 mm (No. 4), 1.18 mm (No. 16), and other sizes as needed				
Oven Capable of maintaining a temperature of 110 ± 5 °C (230 ± 10 °F)				
Containers Rust resistant, a shape such that sample can be spread in a thin layer on the bottom				
Procedures				
Sample Preparation				
1. Samples were taken from materials left over from C117				
2. Material dried to substantially constant mass at 110 ± 5 °C (230 ± 10 °F)				
3. Fine Aggregate, sample mass at least 25 g, consists of particles coarser than 1.18-mm (No. 16) sieve				
Coarse Aggregate				
4. Consists of particles coarser than 4.75-mm (No. 4)				
5. Sample mass at least:				
Size of Particles Making up Test Sample	Mass of Test Sample			
No. 4 to 3/8 in. 3/8 to 3/4 in.	1000g 2000g			
3/8 to 1 ½ in.	3000g			
Over 1 ½ in.	5000g			
Mixtures of Fine and Coarse Aggregate				
6. Material separated into two sizes on the 4.75	i-mm (No. 4) sieve			
7. Sample mass determined to 0.1% and spread in a thin layer on the bottom of the container covered with distilled water and soaked for 20 to 28 hours				
8. Particles rolled between thumb and forefinger to attempt to break them				
9. Fingernails not used to break particles				
10. The residue of friable particles removed by wet sieving as follows:				
Size of Particles	Size of Sieve			
Fine Aggregate	No. 20			
No. 4 to 3/8 in. 3/8 in. to 3/4 in.	No. 8 No. 4			
³ / ₄ in. and larger	No. 4			
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Examiner Name: _____ Date: _____





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Candidate Name:			_ NICET ID:		
	Pro	cedures (continued)		Trial 1	Trial 2
11. Residue from each sieving dried to constant mass					
12. Mass of residue determined to 0.1%					
First Attempt: Pass:	Fail:	Second Attempt: Pass:	Fail:		
Exam Administration: Remote In-Person					
Comments:					
Examiner Name:		Examiner Signature:		Date:	