

AASHTO T11-97
MATERIALS FINER THAN 75- μ m (No. 200) SIEVE
IN MINERAL AGGREGATES BY WASHING

APPARATUS												
	Test 1	Test 2										
1. <u>Balance</u> : AASHTO: Readable to 0.1% of sample mass?												
2. <u>Sieves</u> (Nest of two): (a) 75- μ m (No. 200)? (b) AASHTO: Protective sieve 2.36 mm (No. 8) to 1.18 mm (No. 16)?												
3. <u>Container</u> , size and condition OK?												
4. <u>Oven</u> , maintains 110 \pm 5°C (230 \pm 9°F)?												
5. <u>Mechanical washing apparatus</u> (optional): (a) Results are consistent with those obtained using manual methods? (b) Degradation of the sample is avoided?												
PROCEDURE												
Method A – Washing with Plain Water												
Student may either hand wash or use a mechanical washer to perform the test. Student must demonstrate Method A and list the remaining method for the proctor. Student washed sample: by hand <input type="checkbox"/> mechanical washer <input type="checkbox"/>	Test 1	Test 2										
1. Test sample obtained by T248?												
2. Test sample mass conforms to following table? <table border="1" style="margin-left: 20px;"> <thead> <tr> <th style="text-align: center;">Nominal Maximum Size</th> <th style="text-align: center;">Minimum Mass, g</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">No.4 or finer</td> <td style="text-align: center;">300</td> </tr> <tr> <td style="text-align: center;">3/8 in</td> <td style="text-align: center;">1000</td> </tr> <tr> <td style="text-align: center;">3/4 in</td> <td style="text-align: center;">2500</td> </tr> <tr> <td style="text-align: center;">1 1/2 in or larger</td> <td style="text-align: center;">5000</td> </tr> </tbody> </table>	Nominal Maximum Size	Minimum Mass, g	No.4 or finer	300	3/8 in	1000	3/4 in	2500	1 1/2 in or larger	5000		
Nominal Maximum Size	Minimum Mass, g											
No.4 or finer	300											
3/8 in	1000											
3/4 in	2500											
1 1/2 in or larger	5000											
Note: If same sample is to be tested as in T27, minimum mass should conform to requirements of that method.												
3. Test sample dried to constant mass at 110 \pm 5° C (230 \pm 9° F)?												
4. Test sample mass determined to 0.1 percent of the original dry sample mass?												
5. Placed in container and covered with water?												
6. Contents of container vigorously agitated?												
7. Complete separation of coarse and fine particles?												
8. Wash water poured through sieve nest?												
9. Wash water free of coarse particles?												
10. Operation continued until wash water is clear?												
11. Material on sieves returned to washed sample?												

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PROCEDURE (continued)		
	Test 1	Test 2
12. Excess water decanted from washed sample only through the 75- μ m sieve (No. 200 sieve)?		
13. Washed aggregate dried to constant mass at 110 \pm 5°C (230 \pm 9°F)?		
14. Washed aggregate mass determined to 0.1 percent of the original sample mass?		
15. Calculation: % less than 75 μ m = <u>Orig. dry mass - Final dry mass</u> X 100? Original dry mass		
16. Method B – Washing with a Wetting Agent		
Comments:		

Date Tested: _____ **Person Assessed:** _____ **Assessor:** _____

Retest Date: _____ **Assessor:** _____