



Performance Examination - Asphalt

Standard Method of Test for Mechanical Analysis of Extracted Aggregate (AASHTO T 30-19)

Candidate Name: _____ NICET ID: _____

Apparatus	Trial 1	Trial 2
Nest of sieves The upper a 2.00- or 1.18-mm (No. 10 or 16) sieve the lower a 75- μ m (No. 200) sieve		
Wetting agent on hand		
Oven or Hot Plate Capable of maintaining 110 \pm 5°C (230 \pm 9°F)		
Balance Capable of weighing to 0.1 % of the sample mass		

Procedures	Trial 1	Trial 2
1. The sample consists of all aggregate after extraction		
2. Minimum mass of mix sample based on nominal maximum size		
3. Total wt. of aggregate. for percent calculation = Wt. dry aggregate. (3) plus mineral matter in extracted bitumen, (ash + filter from extraction)		
4. The sample placed in a container and covered with water		
5. Wetting agent added		
6. Contents of container agitated vigorously		
7. Wash water poured through a proper nest of two sieves		
8. Washing continued until the wash water is clear		
9. Washed material coarser than 75- μ m (No. 200) dried to constant mass at 110 \pm 5°C		
10. Material weighed to nearest 0.1 percent		
11. Material sieved on specified sieves (including 75- μ m)		
12. Sieving continued until not more than 0.5 percent by mass of the total sample passes a given		
13. Sieve in 1 min. (check by hand with 8 in. diameter sieve)		
14. Mass retained on any sieve with openings smaller than No. 4 is less than 6 kg/m ³ (4 g/in. ²)		
15. (194 g for 8 in. Diameter sieve, 454 g for 12 in. diameter sieve)		
16. Mass retained on any sieve with openings larger than No. 4 is less than 2.5 x (sieve opening in mm)		
17. The weight of material of sieves meet standard requirements		
18. Each fraction of aggregate weighed, including minus 75m (No. 200)		
19. Does summation of fraction mass check total washed dry mass (#10 above) within 0.2%		
20. Total minus 75- μ m (No. 200) weighed		

Examiner Name: _____ Examiner Signature: _____ Date: _____



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Procedures (continued)	Trial 1	Trial 2
21. Wash water evaporated or filtered through tared filter paper which is subsequently dried as check of wash over 75- μ m (No. 200) [optional]?		
22. Sizes larger than 75- μ m (No. 200) reported to nearest 1.0 percent?		
23. Minus 75- μ m (No. 200) material reported to nearest 0.1 percent?		

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

Exam Administration: Remote _____ In-Person _____

Comments:

Examiner Name: _____ Examiner Signature: _____ Date: _____