



# Performance Examination - Asphalt

## Standard Test Method for Mechanical Size Analysis of Extracted Aggregate (ASTM D5444-15)

Candidate Name: \_\_\_\_\_ NICET ID: \_\_\_\_\_

Apparatus	Trial 1	Trial 2
<b>Nest of Sieves</b> The upper a 2.00- or 1.18-mm (No. 10 or 16) sieve the lower a 75- $\mu$ m (No. 200) sieve		
<b>Wetting Agent</b> on hand		
<b>Oven or Hot Plate</b> Capable of maintaining 110 $\pm$ 5 $^{\circ}$ C (230 $\pm$ 9 $^{\circ}$ F)		
<b>Balance</b> 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- $\mu$ m (No. 200) dried to constant mass at 110 $\pm$ 5 $^{\circ}$ C		
10. Material weighed to nearest 0.1 percent		
11. Material sieved on specified sieves (including 75- $\mu$ m)		
12. Sieving continued until not more than 0.5% by mass of the total sample passes a given sieve in 1 min. (check by hand with 8 in. diameter sieve)		
13. Mass retained on any sieve with openings smaller than No. 4 is less than 6kg/m <sup>3</sup> (4 g/in. <sup>2</sup> )		
14. 194 g for 8 in. Diameter sieve, 454 g for 12 in. diameter sieve		
15. Mass retained on any sieve with openings larger than No. 4 is less than 2.5 x (sieve opening in mm)		
16. The weight of material of sieves meet standard requirements		
17. Each fraction of aggregate weighed, including minus 75- $\mu$ m (No. 200)		
18. Does summation of fraction mass check total washed dry mass (#10 above) within 0.2%		
19. Total minus 75- $\mu$ m (No. 200) weighed		

Examiner Name: \_\_\_\_\_ Examiner Signature: \_\_\_\_\_ Date: \_\_\_\_\_



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

First Attempt: Pass: \_\_\_\_\_ Fail: \_\_\_\_\_ Second Attempt: Pass: \_\_\_\_\_ Fail: \_\_\_\_\_

Exam Administration: Remote \_\_\_\_\_ In-Person \_\_\_\_\_

**Comments:**

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Examiner Name: \_\_\_\_\_ Examiner Signature: \_\_\_\_\_ Date: \_\_\_\_\_