Performance Examination - Asphalt

Standard Test Method for Bulk Specific Gravity and Density of Non-Absorptive Compacted Asphalt Mixtures (ASTM D2726 / D2726M-17)

Candidate Name: _____ **NICET ID:** _____

Apparatus	Trial 1	Trial 2
Method A		
Balance and Suspension Conforms to M231 for the class required for principal sample mass of samples tested Has sufficient sensitivity to determine bulk specific gravity to four significant figures (0.1 g for 100.1 - 999.9 g) Conforms to D4753, GP2 Suspension from the center of balance pan Does not have to be from the center of the pan Suspension wire of smallest practical size Holder and sample completely immersed Can determine the constant mass of specimen to 0.05 percent		
Water Bath Equipped with an overflow outlet to maintain the constant water level and thermostatically controlled to 25.0 ± 0.5 °C (77.0 ± 0.9 °F) Deep enough to completely immerse holder and sample		
Drying Oven At approx. 110 ± 5° C (230 ± 9 °F)		
Room temperature: 25 ± 5 °C (77 ± 9 °F)		
Method B		
Method does not include the use of a volumeter		
Balance Conforms to M231 for the class required for the principal mass of samples tested Can determine the constant mass of specimen to 0.1 percent		
Water bath Thermostatically controlled to 25.0 ± 0.5 °C (77.0 ± 0.9 °F)		
Thermometer 17 °C or 17 °F		
Calibrated volumeter tapered lid with a capillary bore		
Room temperature: 25 ± 5 °C (77 ± 9 °F)		
Drying Oven at 52 ± 3 °C (125 ± 5 °F)		

Procedures	Trial 1	Trial 2
Method A		
1. Mass (g) of dry sample in air determined		
2. Dried overnight at 52 ± 3 °C (125 ± 5 °F) and successive two-hour intervals to constant mass (0.05 percent)		

Examiner Name: _____ **Examiner Signature**: _____ **Date:** _____

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Candidate Name: _____ **NICET ID:** _____

Procedures (continued)	Trial 1	Trial 2
3. Cooled to room temperature, 25 ± 5 °C (77 ± 9 °F), and weighed		
4. Immersed mass determined		
5. Immersed 4 ± 1 min, water at 25 ± 1 °C (77 ± 1.8 °F)		
6. Saturated surface-dry mass determined		
7. Quickly blotted with a damp towel		
8. Percent water absorbed determined to be less than 2%		
Method B		
1. Specimen dried, cooled, and weighed as in Method A		
2. Saturated surface-dry mass determined		
3. Immersed at least 10 min. at 25 ± 1 °C (77.0 ± 1.8 °F)		
4. Dried with a damp towel		
5. Specimen weighed		
6. Any water which seeps from the specimen is included in the mass		
7. Mass of volumeter filled with distilled water at 25 ± 1 °C (77.0 ± 1.8 °F) determined		
8. Weighed, saturated specimen placed into volumeter		
9. Let stand for at least 1 minute		
10. The temperature of water brought to 25 ± 1 °C (77.0 ± 1.8 °F) and volumeter covered		
11. Some water allowed to escape through the capillary bore of the tapered lid		
12. Volumeter wiped dry and volumeter and contents weighed		
13. Percent water absorbed determined to be less than 2%		

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

Exam Administration: Remote _____ In-Person _____

Comments:

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Examiner Name: _____ **Examiner Signature**: _____ **Date:** _____