

AASHTO - PERFORMANCE EXAM CHECKLIST

Applicant: _____

Date: _____

AASHTO T209-23 Theoretical Maximum Specific Gravity and Density of Asphalt Mixtures

		First test	Retest
		Yes/No	Yes/No
<u>Sample Preparation</u>			
SEC: 6.3	The size of the sample shall conform to the table.	_____	_____
SEC: 7.2.1	Plant produced samples may be short-term conditioned as specified by the agency.	_____	_____
SEC: 7.3	Separate the particles of the asphalt mixture by hand, so that the particles are not larger than 6.3 mm (1/4 inch).	_____	_____
SEC: 7.4	Determine and record the mass of the empty vacuum container to the 0.1 gram.	_____	_____
SEC: 7.5	Cool the sample to room temperature, and place the sample in the vacuum container. Record the mass of the sample and container to the 0.1 gram.	_____	_____
SEC: 7.6	Add sufficient water at a temperature of approximately 25°C (77°F) to cover the sample completely.	_____	_____
<u>Method A – Mechanical Agitation</u>			
SEC: 9.1	Remove air trapped in the sample by applying a vacuum until the pressure reads 30±5 mmHg (4.0±0.6 kPa).	_____	_____
SEC: 9.1	Maintain this pressure for 15±1 minute. Agitate the container and contents using the mechanical device during the vacuum period.	_____	_____
SEC: 9.2	At the end of the vacuum period, release the vacuum at a rate not to exceed 60 mmHg (8 kPa) per second.	_____	_____
<u>Method A – Mechanical Agitation and Mass Determination in Water (Bowl)</u>			
SEC: 11.1	Suspend the container and contents in a water bath at 25±1°C (77±2°F). Determine and record the mass after a 10±1 minute immersion to 0.1 gram.	_____	_____

Method A – Mechanical Agitation and Mass Determination in Air (Flask)

**SEC: 11.2
& A1.2.1**

Fill the flask with water and adjust the contents to a temperature of $25\pm 1^{\circ}\text{C}$ ($77\pm 2^{\circ}\text{F}$). Use a glass plate to ensure all entrapped air is removed. Record the mass of the container and contents to 0.1 gram, completely filled within 10 ± 1 minute after the vacuum has been released.

Examiner: _____

SCORE: PASS FAIL FAIL
Proctor Initials:

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