

## Procedure Checklist FM 1-T 166: Bulk Specific Gravity

		P	F	N/A
<b>Lab Produced</b>				
1.	Record the weight of the dry sample. FM 1-T 166, Section 5.1.2.			
2.	Verify the water temperature at $77^{\circ} \pm 2.0^{\circ}\text{F}$ . FM 1-T 166, Section 3.3. Correct as needed (No reference).			
3.	Place the specimen in the suspension apparatus. No reference.			
4.	Adjust the water level so that both the sample and holder are covered. No reference.			
5.	Verify the overflow correctly maintained a constant water level. No reference.			
6.	Determine the underwater weight after $4 \pm 1$ minutes. FM 1-T 166, Section 5.1.3.			
7.	Remove the specimen from the water and quickly blot to a saturated surface dry condition on a damp towel. FM 1-T 166, Section 5.1.4.			
8.	Calculate bulk specific gravity to 0.001. FM 1-T 166, Section 6.1.			
<b>Pavement Cores</b>				
9.	Do not submerge the specimen in ice or water during transport or storage. FM 1-T 166, Section 4.4.			
10.	Keep the specimen free from foreign materials. FM 1-T 166, Section 4.5.			
11.	Separate the specimen from other layers by sawing. FM 1-T 166, Section 4.6.			
12.	Place the specimen in a vacuum chamber on a support plate. FM 1-T 166, Section 5.2.1.			
13.	Start the vacuum. FM 1-T 166, Section 5.2.3.			
14.	Verify the vacuum stops automatically at completion of drying process. ASTM D7227, Section 8.3.4.			
15.	After removal from vacuum, complete steps 1-7, above.			
16.	Calculate bulk specific gravity to 0.001. FM 1-T 166, Section 6.1.			

**Comparison Criteria: Lab produced; between lab: Specific Gravity = 0.022  
Pavement cores; between lab: Specific Gravity = 0.014**

**Remarks:**

Date: \_\_\_\_\_ Technician: \_\_\_\_\_ IA Observer: \_\_\_\_\_

Technician's e-mail address: \_\_\_\_\_

Employer's / supervisor's e-mail address: \_\_\_\_\_