

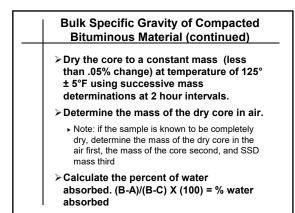
Bulk Specific Gravity of Compacted Bituminous Material

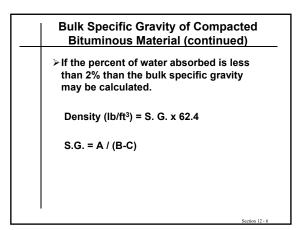
AASHTO T 166 WYDOT MTM 418.0

- Make sure balance is level and readable to four figures.
- Make sure the suspension wire or chain is hanging freely from the bottom of the scale.
- Make sure that there is sufficient water to fully immerse the specimen and that the temperature of the water is (77° ± 1.8°F)

1

 Carefully trim the core to isolate th for which the bulk specific gravity be determined. Submerge the core in the water for minutes and determine the mass w 	
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the sample is in the water.	
Determine the saturated surface-dr mass after using a damp towel to o blot away excess surface water.	





 Bulk Specific Gravity of Compacted Bituminous Material (continued)
 If greater than 2% water is absorbed the the waxed core procedure should be used. Calculations: Density (lb/ft³) = S. G. x 62.4
S.G. = A / ((D – E) – ((D-A) / F)))
Section 12 - 7

Bulk Specific Gravity of Compacted Bituminous Material (continued)
A = Mass of sample in air
B = Saturated surface dry mass
C = Mass of sample in water
D = Mass of waxed core sample in air
E = Mass of waxed core sample in water
F = Specific gravity of wax (0.90)
SG. = Bulk specific gravity