

SPECIFIC-GRAVITY TESTS

1. PROJECT		2. DATE	
3. BORING NUMBER	4. JOB NUMBER	5. EXCAVATION NUMBER	

6. SPECIFIC GRAVITY OF SOLIDS (G_s)				
FLASK CALIBRATION DATA	a. FLASK NUMBER	b. CLEAN, DRY WEIGHT, W_b Grams	c. FLASK + WATER WEIGHT, W_{bw} Grams	d. OBSERVED TEMPERATURE, T_i ° C
e. SAMPLE OR DETERMINATION NUMBER				
D E T E R M I N A T I O N D A T A	f. DISH NUMBER			
	g. WEIGHT OF DISH + DRY SOIL		Grams	
	h. WEIGHT OF DISH		Grams	
	i. WEIGHT OF DRY SOIL, W_s		Grams	
	j. WEIGHT OF FLASK + WATER + IMMERSSED SOIL, W_{bws}		Grams	
	k. TEMPERATURE OF WATER, T_x		° C	
	l. CALCULATED WEIGHT OF FLASK + WATER AT T_x , W_{bw}		Grams	
	m. CORRECTION FACTOR FOR T_x , K			
n. SPECIFIC GRAVITY OF SOLIDS		$G_s = \frac{W_s K}{W_s + W_{bw} - W_{bws}}$		

7. APPARENT (G_a) AND BULK (G_m) SPECIFIC GRAVITY				
a. SAMPLE OR SPECIMEN NUMBER				
b. TEMPERATURE OF WATER AND SOIL (° C) (must be within 23 ± 1.7 ° C)				
c. TARE + SATURATED SURFACE - DRY SOIL				
D E T E R M I N A T I O N D A T A	d. TARE			
	e. SATURATED SURFACE - DRY SOIL, (B)			
	f. (WIRE BASKET + SOIL) IN WATER			
	g. WIRE BASKET IN WATER			
	h. SATURATED SOIL IN WATER, (C)			
	i. TARE AND DRY SOIL			
	j. TARE			
	k. DRY SOIL, (A)			
l. APPARENT SPECIFIC GRAVITY		$G_a = (A) / (A - C)$		
m. BULK SPECIFIC GRAVITY		$G_m = (A) / (B - C)$		
n. BULK SPECIFIC GRAVITY, SATURATED SURFACE DRY (SSD)		$G_m = (B) / (B - C)$		

8. REMARKS		
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9. TECHNICIAN (Signature)	10. COMPUTED BY (Signature)	11. CHECKED BY (Signature)
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