

# KT-6 Specific Gravity and Absorption of Aggregates (Coarse) Revised June 2018

Two attempts may be made by the applicant. The applicant may stop themselves once and not have that count as one of the two attempts. If the applicant stops voluntarily, draw a line at that point and note that the applicant stopped themselves then restart at the top of the next attempt.

Applicant: \_\_\_\_\_

CIT #: \_\_\_\_\_

Employer: \_\_\_\_\_

		1st Test		Stopped Test		Re-Test	
	<b>Sample Preparation</b>						
1.	<u>Sample passes the 2 in (50 mm) sieve and is retained on the No. 4 (4.75 mm) sieve. (3.2.1.)</u>	PASS	FAIL	PASS	FAIL	PASS	FAIL
2.	<u>Select a portion of the aggregate by splitting or quartering. The minimum mass of sample will meet requirements of Table 1. To select sample size, use the largest sieve on which 5% or more of the material is specified to be retained. (3.2.1.1)</u>	PASS	FAIL	PASS	FAIL	PASS	FAIL
3.	<u>Thoroughly wash the sample. (3.2.1.2.)</u>	PASS	FAIL	PASS	FAIL	PASS	FAIL
4.	<u>Dry the sample to a constant mass. (3.2.1.3.)</u>	PASS	FAIL	PASS	FAIL	PASS	FAIL
	<b>Procedure</b>						
5.	<u>Immerse the sample in water &amp; stir vigorously. Soak for a period of 24 +/- 4 hours. (3.2.2.1.)</u>	PASS	FAIL	PASS	FAIL	PASS	FAIL
6.	<u>Remove the sample from the water &amp; bring to a saturated surface-dry (SSD) condition. (3.2.2.2.)</u>	PASS	FAIL	PASS	FAIL	PASS	FAIL

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7.	Weigh the sample immediately after obtaining the SSD condition. Record this value as “B”. All masses determined in this test shall be to the nearest 1 g or 0.1 % of the sample mass, whichever is greater. (3.2.2.3.)	PASS	FAIL	PASS	FAIL	PASS	FAIL
8.	Immediately after obtaining the SSD mass, immerse the sample in water, stir to remove any entrapped air and weigh. The water temperature shall be 77 +/- 2 ° F (25 +/- 1° C). (3.2.2.4.)	PASS	FAIL	PASS	FAIL	PASS	FAIL
9.	<u>Dry the sample to a constant mass at a temperature of 230 +/- 9° F (110 +/- 5° C). (3.2.2.5.)</u>	PASS	FAIL	PASS	FAIL	PASS	FAIL
10.	<u>Cool the sample to room temperature, until aggregate has cooled to a temperature that is comfortable to handle and determine the mass. Record this value as “A”. (3.2.2.6.)</u>	PASS	FAIL	PASS	FAIL	PASS	FAIL
<b>Calculations</b>							
11.	<u>Calculate the Bulk Specific Gravity, Saturated Surface-Dry, Apparent Specific Gravity and Absorption. (3.3.)</u>	PASS	FAIL	PASS	FAIL	PASS	FAIL

### Overall Score

Circle One

#### 1<sup>st</sup> Test

PASS

FAIL

#### Stopped Test

PASS

FAIL

#### Re-Test

PASS

FAIL

#### Witness Examiner:

(First Try)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

#### Witness Examiner:

(Stopped Try)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

#### Witness Examiner:

(Re-Test)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date