

Aggregate Laboratory Testing Technician
KT-31 Determination of Percentage of Crushed Particles in Crushed
Gravel
 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	
	Sample Preparation						
1.	<u>Obtain the test sample by quartering or splitting according to KT-01. (4.1.)</u>	PASS	FAIL	PASS	FAIL	PASS	FAIL
2.	<u>The sample shall be of sufficient size to yield the minimum dry mass shown in Table 1 after washing over the No. 4 (4.75 mm) sieve. (4.1.)</u>	PASS	FAIL	PASS	FAIL	PASS	FAIL
3.	<u>Screen the sample over a No. 4 (4.75 mm) sieve and discard all material passing the sieve. (4.1.)</u>	PASS	FAIL	PASS	FAIL	PASS	FAIL
4.	<u>Wash the retained material over a No. 4 (4.75 mm) sieve and dry the sample to constant mass at 230 +/- 9°F (110 +/- 5°C). (4.1)</u>	PASS	FAIL	PASS	FAIL	PASS	FAIL
	Procedure						
5.	<u>Weigh the material retained on the No. 4 (4.75 mm) sieve to the nearest gram. Record this mass as the original dry mass. (5.1.)</u>	PASS	FAIL	PASS	FAIL	PASS	FAIL
6.	<u>Spread the material in a thin layer on a clean flat surface so that each particle can be examined. (5.2.)</u>	PASS	FAIL	PASS	FAIL	PASS	FAIL
7.	<u>Separate the crushed particles from uncrushed particles. Any particle appearing to have one or more fractured faces shall be considered a crushed particle. (5.3.)</u>	PASS	FAIL	PASS	FAIL	PASS	FAIL

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8.	Separate the crushed particles into three piles; uncrushed particles, particles with two or more fractured faces and particles with one fractured face. (6.3)	PASS	FAIL	PASS	FAIL	PASS	FAIL
Calculations							
9.	Compute the percentage of crushed particles. (7.1.)	PASS	FAIL	PASS	FAIL	PASS	FAIL

Overall Score

Circle One

1st 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