KT-55 Plastic Fines In Combined Aggregates By Use Of The Sand Equivalent Test Revised: March 2020

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.	Sample pulverized and passed through No. 4	PASS	FAIL	PASS	FAIL	PASS	FAIL
	(4.75mm) sieve. (5.1.)	1100	1 / IIL	11100	17112	11100	11112
2.	Clean all fines from the particles retained on the No. 4 (4.75 mm) sieve and include with the material passing the No. 4 (4.75 mm) sieve. (5.1)	PASS	FAIL	PASS	FAIL	PASS	FAIL
3.	Split or quartered to yield slightly more than four-3 oz (85 mL) tin measures of material passing the No. 4 (4.75 mm) sieve. Dampen the material to avoid loss or segregation of the fines if necessary. (5.2.)	PASS	FAIL	PASS	FAIL	PASS	FAIL
4.	Use enough minus No. 4 (4.75 mm) material to fill the tin measure so it is slightly rounded above the brim. (5.3.1.)	PASS	FAIL	PASS	FAIL	PASS	FAIL
5.	Tap the bottom edge of the tin measure on a hard surface to cause consolidation of the material as it is being filled. (5.3.1.)	PASS	FAIL	PASS	FAIL	PASS	FAIL
6.	Strike off the tin measure level full with a spatula or straightedge. (5.3.1.)	PASS	FAIL	PASS	FAIL	PASS	FAIL
7.	Dry the test sample to constant mass at 230 +/- 9°F (110 +/- 5°C), cool to room temperature before testing. (5.3.2.)	PASS	FAIL	PASS	FAIL	PASS	FAIL
	Procedure						

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		1st Test		Stoppe	Stopped Test		Re-Test	
8.	For each test sample siphon 4 +/- 0.1 in (101.6 +/- 2.5mm) of working calcium chloride solution into the plastic cylinder. (6.1.)	PASS	FAIL	PASS	FAIL	PASS	FAIL	
9.	Pour sample from the measuring tin into the plastic cylinder using the funnel to avoid spillage. (6.1.)	PASS	FAIL	PASS	FAIL	PASS	FAIL	
10.	Tap the bottom of the cylinder sharply on the heel of the hand several times to release air bubbles and to promote thorough wetting of the sample. (6.1.)	PASS	FAIL	PASS	FAIL	PASS	FAIL	
11.	Allow the wetted sample to stand undisturbed for 10 +/- 1 minutes. (6.2.)	PASS	FAIL	PASS	FAIL	PASS	FAIL	
12.	Stopper the cylinder and loosen the material from the bottom by partially inverting the cylinder and shaking simultaneously. (6.2.)	PASS	FAIL	PASS	FAIL	PASS	FAIL	
13.	Place stoppered cylinder in the mechanical shaker and set timer for 45 seconds. (6.3.)	PASS	FAIL	PASS	FAIL	PASS	FAIL	
14.	Following shaking, set cylinder upright on worktable and remove stopper. (6.4.)	PASS	FAIL	PASS	FAIL	PASS	FAIL	
15.	Insert irrigator tube in the cylinder and rinse material from the cylinder walls as the irrigator is lowered. Force the irrigator through the material to the bottom of the cylinder by gentle stabbing and twisting action while solution flows from tip. (6.5)	PASS	FAIL	PASS	FAIL	PASS	FAIL	
16.	Apply stabbing and twisting motion until the cylinder is filled to the 15 in. (381mm) mark. (6.5.)	PASS	FAIL	PASS	FAIL	PASS	FAIL	
17.	Raise the irrigator slowly without shutting off the flow so that the liquid level is maintained at 15 in (381 mm) while the irrigator is being withdrawn. Adjust the final level to 15 in. (381 mm) (6.5.)	PASS	FAIL	PASS	FAIL	PASS	FAIL	

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			1st Test		Stopped Test		Re-Test	
18.	Start timing immediately a the tube. Allow the cylind stand undisturbed for 20 r seconds. (6.6.)	er and contents to	PASS	FAIL	PASS	FAIL	PASS	FAIL
19.	After sedimentation period the top level of the clay su		PASS	FAIL	PASS	FAIL	PASS	FAIL
20.	Place the weighted foot assembly over the cylinder and gently lower the assembly toward the sand. Do not allow the indicator to hit the mouth of the cylinder. As the weighted foot assembly comes to rest on the sand, tip it until the indicator touches the inside of the cylinder. Subtract 10 in (254 mm) from the level indicated by the extreme top edge of the indicator and record this value as the sand reading. (6.8.)		PASS	FAIL	PASS	FAIL	PASS	FAIL
21.	If clay/sand readings fall between 0.1 in (2.5 mm) graduations, record the level of the higher graduation as the reading. (6.9.)		PASS	FAIL	PASS	FAIL	PASS	FAIL
		Overall	Score					
		Circle	One					
	1 st Test Stopped Tes		l Test			Re-Test		
	PASS PAS		SS			PASS		
	FAIL FAI		L			FAIL		
	Witness Examiner:							
(First Try) Signature				Date				
	Witness Examiner:							
(Stopped Try) Signature				Date				
	Witness Examiner:							
(Re-Test) Signature					Date			