

## **Performance Examination - Concrete**

## Standard Test Method for Slump of Hydraulic-Cement Concrete (ASTM C143 / C143M-15a) [AASHTO T 119M / T 119-18]

Candidate Name: NICET ID:	NICET ID:		
Apparatus		Trial 1	Trial 2
<b>Mold</b> The test specimen shall be formed in a mold made of metal or plastic not readily attacked by the cement paste. The mold shall be sufficiently rigid to maintain the specific dimensions and tolerances during use, resistant to impact forces, and shall be non-absorbed molds shall have an average thickness of not less than 0.060 in. (1.5 mm) with no individual thickness measurement of less than 0.045 in. (1.15 mm). Plastic molds shall be ABS plastic or equivalent with a minimum average wall thickness of 0.125 in. (3 mm), with individual thickness measurement less than 0.100 in. (2.5 mm).	orbent. be		
The mold shall be in the form of the lateral surface of the frustum of a cone with the base (200 mm) in diameter, the top 4 in. (100 mm) in diameter, and the height 12 in. (300 mm)			
Individual diameters and heights shall be within $\pm1/\!\!\!/_8$ in. (3 mm) of the prescribed dimens The base and the top shall be open and parallel to each other and at right angles to the of the cone. The mold shall be provided with foot pieces and handles.			
The mold shall be constructed without a seam. The interior of the mold shall be relatively smooth and free from projections. The mold shall be free from dents, deformation, or ad mortar.	,		
<b>Tamping Rod</b> A round, smooth, straight steel rod, with a $\frac{5}{8}$ in. (16 mm) $\pm \frac{1}{16}$ in. (2 mm) diameter. The length of the tamping rod shall be at least 4 in. (100 mm) greater than the depth of the mold in which rodding is being performed, but not greater than 24 in. (600 n overall length. The rod shall have the tamping end or both ends rounded to a hemispher tip of the same diameter as the rod.	nm) in		
<b>Measuring Device</b> A ruler, metal roll-up measuring tape or similar rigid or semi-rigid len measuring instrument marked in increments of ¼ in. (5 mm) or smaller. The instrument I shall be at least 12 in. (300 mm)			
<b>Scoop</b> Of a size large enough so each amount of concrete obtained from the sampling receptacle is representative and small enough, so it is not spilled during placement in the mold.	Ð		
	<del></del>	Trial	Trial
Procedures		1	2
Dampen the interior of the slump mold.	-1:-		
<ol><li>Place the mold on a rigid, flat, level, moist, nonabsorbent surface, free of vibration, the large enough to contain all of the slumped concrete.</li></ol>	at is		
3. Hold the mold firmly in place by standing on the 2-ft. pieces on either side of the mold A base plate with clamps is also acceptable.			
4. Using a scoop, fill the mold in three layers moving the scoop around the perimeter of to mold opening to ensure an even distribution of the concrete.	the		

Examiner Name: \_\_\_\_\_ Examiner Signature: \_\_\_\_\_ Date: \_\_\_\_



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Candidate Name: NICE	NICET ID:		
Procedures (continued)		Trial 1	Trial 2
5. For the first layer: Fill the mold to approximately 1/3 of its volume (2-5/8 in. (70 the layer 25 times throughout its depth with the rounded end of the tamping rod distribute the strokes over the cross section of the layer; Incline the rod slightly perimeter, and progress spirally toward the center.	. Uniformly		
6. For the second layer: Fill the mold to approximately 2/3 of its volume, approximately 6-1/8 in. (160 mm); Rod the layer 25 times with the rounded end of the tamping repenetrating through the second layer and approximately 1 in. (25 mm) Into the functional Uniformly distribute the strokes over the cross-section of the layer.	od,		
7. For the third layer: Heap concrete above the top of the mold; Rod the layer 25 to the rounded end of the tamping rod, penetrating through the third layer and app 1 in. (25 mm) Into the second layer. Uniformly distribute the strokes over the croof the layer. Should rodding result in the concrete falling below the top of the mold. Continue the rodding count from the reached before concrete was added to the mold.	roximately oss-section old, add		
8. Strike off the top surface of the concrete with the tamping rod in a screeding an motion.	d rolling		
<ol><li>While maintaining downward pressure, remove any concrete around the base of during strike off.</li></ol>	of the mold		
10. Immediately remove the mold by raising the mold in a steady, vertical direction should be no lateral or torsional motion of the mold while lifting. Lift the mold o concrete a distance of 12 in. (300 mm) in 5 ± 2 s.			
11. Complete the slump test, from the start of filling the mold through the removal in 2½ minutes. If a decided falling away or shearing off of concrete from one si portion of the mass occurs, disregard the test.			
12. Immediately measure the slump the vertical distance between the top of the moriginal displaced center of the top surface of the specimen.	old and the		
13. Report the slump to the nearest ¼ in. (5 mm).			
First Attempt: Pass: Fail: Second Attempt: Pass: Fail: _  Exam Administration: Remote In-Person  Comments:			

Examiner Name: \_\_\_\_\_ Examiner Signature: \_\_\_\_\_ Date: \_\_\_\_