

Performance Examination - Concrete

Standard Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete (ASTM C1064 / C1064M-17)

Candidate Name:

NICET ID:

Apparatus	Trial 1	Trial 2
Container Shall be large enough to provide at least 3 in. (75 mm) of concrete in all directions around the sensor of the temperature measuring device; concrete cover must also be at least 3 times the nominal maximum size of the coarse aggregate.		
Temperature Measuring Device Shall be capable of accurately measuring the temperature of freshly mixed concrete to $\pm 1 \degree F (\pm 0.5 \degree C)$ throughout a range of 30-120 ° F (0-50 ° C). The design of the temperature measuring device shall be such that it allows 3 in. (75 mm) or more immersion during operation.		
Partial Immersion Liquid-In-Glass Thermometers Shall have a permanent mark to which the device must be immersed without applying a correction factor.		
Reference Temperature Measuring Device Shall be readable and accurate to ± 0.5 °F (0.2°C) at the verification points at two temperatures at least 30 °F (15 °C) apart. A certificate or report that verifies the accuracy shall be available in the laboratory for review.		

Procedures	Trial 1	Trial 2
 Place the Temperature Measuring Device (TMD) in the concrete so that the sensing portion is submerged a minimum of 3 in. (75 mm) 		
2. Gently press concrete around the TMD so that ambient (outside) air temperature does not influence the measured temperature.		
3. Leave the TMD in the concrete for at least 2 minutes but not more than 5 minutes.		
 Read and record the fresh concrete temperature to the nearest 1 °F (0.5 °C). Do not remove the TMD from the concrete when reading the temperature. 		
 Report the measured temperature of the freshly mixed concrete to the nearest 1 °F (0.5 °C) 		

First Attempt: Pass: _____ Fail: ____ Second Attempt: Pass: _____ Fail: _____

Exam Administration: Remote _____ In-Person _____

Comments: