

**IA Checklist**  
**ASTM C1064 (T 309)**  
**Temperature of Freshly Mixed Hydraulic-Cement Concrete**

<b>Procedure</b>		<b>P</b>	<b>F</b>	<b>NA</b>
1	Place Thermometer in sample with a minimum of 3" [75 mm] cover around sensor.			
2	Close the air void by gently pressing the concrete around the measuring device.			
3	Leave the temperature measuring device in the freshly mixed concrete for at least 2 minutes but not more than 5 minutes.			
4	Read and record the temperature to the nearest 1 ° F [0.5 ° C].			
5	Do not remove the thermometer from the concrete when reading the temperature.			

<b>Equipment</b>		<b>P</b>	<b>F</b>	<b>NA</b>
<b>Container</b>				
1	Verify the container is large enough to provide at least 3" [75 mm] of concrete in all directions around the sensor of the temperature measuring device.			
<b>Temperature Measuring Device</b>				
2	Verify the temperature measuring device is accurate to $\pm 1^{\circ}$ F [ $\pm 0.5^{\circ}$ C] throughout a range of 30° F to 120° F [0° C to 50° C].			
3	Verify the design of the temperature measuring device is such that it allows 3" [75 mm] or more of immersion during operation.			
4	Verify temperature measuring devices are calibrated/verified annually by comparing the readings of the temperature measuring device at 2 temperatures at least 30° F [15° C] apart.			

**Remarks:**