

PROCEDURE FOR CALIBRATING, STANDARDIZING OR CHECKING EQUIPMENT

Original 12/96, Revised 7/97, 3/11, 7/14

PROCEDURE #2

Equipment Standardized:

OVENS

Purpose:

To provide instructions for standardizing the thermometric device on general purpose ovens.

Inspection Equipment Required:

1. A thermometer capable of reading in 1.0°C or 2.0°F increments having a range which includes the temperature range to be standardized.
2. Brass wells.

Tolerance:

Drying ovens shall be capable of maintaining a constant temperature range listed in the appropriate test methods performed in the oven.

Procedure:

1. Insert the thermometer into the brass well. Position the thermometer and brass well in the center of the oven.
2. Set the oven's temperature indicating device to the mid-point temperature of the temperature range listed in the appropriate test method.

Example: If the temperature tolerance is $230 \pm 9^{\circ}\text{F}$, set the oven to 230°F .

3. Take the first reading at least 1 hour after closing the oven door (oven should remain undisturbed).
4. Take as many readings as necessary to determine if the temperature range is within the specified tolerance (Three consecutive readings, taken no less than ½ hour apart).
5. Adjust the temperature of the oven if an observed temperature reading is outside the tolerance (allow at least 30 minutes for temperature to adjust). Return to Step 3.