

PROCEDURE FOR VERIFYING OVEN TEMPERATURE

1. PURPOSE:
 - 1.1 This method provides instructions for verifying the dial setting on aggregate drying ovens..
2. INSPECTION EQUIPMENT REQUIRED:
 - 2.1 A thermometer calibrated by an NIST traceable thermometer, graduated in at least 1-degree increments and having a range, which includes the temperature range to be verified.
 - 2.2 A brass thermometer well or similar device to retain heat while the oven door is open. This is essential for a constant temperature reading.
3. PROCEDURE:
 - 3.1 Bring oven to temperature range to be verified.
 - 3.2 Place the thermometer in the brass well and position the thermometer on the shelf where the samples are normally dried.
 - 3.3 Oven must remain undisturbed for minimum of 1 hour before first reading.
 - 3.4 Take as many readings as necessary to determine if the temperature range is within the specified tolerance (three consecutive readings taken no less than 30 minutes apart are adequate).
 - 3.5 Adjust the temperature of the oven if an observed temperature reading is outside the tolerance specified (allow at least 30 minutes for the temperature to stabilize between each adjustment). Return to step 3.4.

4. REPORT: See attached Equipment Verification Record.

APPROVED

DIRECTOR
DIVISION OF MATERIALS

DATE

02/21/08

Kentucky Method 64-627-08

Dated 02/21/08

Supersedes KM 64-627-06

Dated 05/30/06

Attachments

KM62708.doc

Kentucky Transportation Cabinet, Division of Materials
Aggregate Section

EQUIPMENT VERIFICATION RECORD

Inspector: _____ Date: _____

Previous Verification Date: _____ Next Due Date: _____

Model / Serial No. _____

Equipment Name: Drying Oven Verification Frequency: 4 Months

Verification Equipment
Used: Thermometer

Thermometer Serial No. _____

Verification Procedure: KM64-627

Date	Time	Set Temp (°F) or (°C)	Actual Temp
		230° (+/- 9°) F 110° (+/- 5°) C	

Comments: _____

6/1/06