

## Density Measure Calibration Worksheet

Equipment ID: _____	Date: _____
Manufacturer: _____	Performed By: _____
Model #: _____	Last Calibration: _____
Serial #: _____	Next Calibration Due: _____
Storage Location: _____	

Calibration Item: Verify volume of measure and check rim planeness

Calibration Procedure: In-House Procedure for Verifying Density Measure

Calibration Equipment: Scale readable to 0.1 lb. (45 g) or better  
 Thermometer readable to 1 °F (0.5 °C)  
 Glass Plate at least 1/4 in. (6 mm) thick and at least 1 in. (25 mm) larger than the diameter of the measure  
 Feeler Gauge 0.01 in. (0.25 mm)  
 Grease or Vaseline

Is the rim of the measure plane to within 0.01 in.?     Yes     No

a	Mass of glass and measure (lb)	
b	Mass of glass, measure and water (lb)	
c	Mass of water (lb) $c = b - a$	
	Temperature of water	
D	Density of water (lb/ft <sup>3</sup> )	
V	Volume of measure (ft <sup>3</sup> ) $V = \frac{c}{D}$	

**Table 3**—Density of Water

Temperature		kg/m <sup>3</sup>	lb/ft <sup>3</sup>
°C	°F		
15.6	60	999.01	62.366
18.3	65	998.54	62.336
21.1	70	997.97	62.301
(23.0)	(73.4)	(997.54)	(62.274)
23.9	75	997.32	62.261
26.7	80	996.59	62.216
29.4	85	995.83	62.166

Pass / Fail \_\_\_\_\_

Initial By \_\_\_\_\_