

## WORKSHEET G-2W

# **UNIT WEIGHT MEASURES**

REQUIREMENTS: Standardize Thermometric Device					
Standardization Frequency	Last Standardization	Date of Standardization	Next Standardization		
12 Months					

GAGELIST ID:\_\_\_\_\_

ASSET ID:

SERIAL NUMBER:

MODEL NUMBER/MANUFACTURER:

STANDARDIZATION REFERENCE: PROCEDURE A-1; ASTM/AASHTO C29/M231

#### TRACEABLE MEASURING AND TEST EQUIPMENT USED FOR STANDARDIZATION:

Equipment Name	Serial or ID Number
Balance (0.1 lb)	
Thermometer (0.5 °C)	
24" Steel Ruler (0.01")	
1/4" Glass Plate	
Caliper (0.001")	
Feeler Gauge (0.005")	

### STANDARDIZATION TABLE:

Capacity of Measure: \_\_\_\_\_

	Reading 1	Reading 2	Reading 3	Reading 4	Average	Deviation	Allowable Deviation
Top Inside Diameter, in.							
Inside Height, in.							
Height/Diameter Ratio, in.							0.8 to 1.5
Top Rim Planeness, 0.01 in.				YES/NO =			< 0.01
Distance Between Plates							
A. Longest Distance - Shortest =		B. Distance l Opposite	Between Two e Points =		$A \div B \times 100=$		≤0.87 %
Top ½" Rim Thickness							See Table 2 in C 29
Wall Thickness							See Table 2 in C 29
Bottom Thickness	Overall Height	=	Void Height =				See Table 2 in C 29

<b>Top Rim Planeness</b> (0.01"):		Temperature - Density of Water	
Not Acceptable	°C	lb/ft <sup>3</sup>	
	15.6	62.366	
metric Calibration	18.3	62.336	
2. Mass of Measure + Glass Plate + Water:	21.1	62.301	
W 2=	(23.0)	(62,274)	
4. Density of Water from Table 2 @ T:	(25.0)	(02.271)	
<i>D</i> =	23.9	62.261	
6. Mass of Measure + Glass Plate + Water:	26.7	62.216	
W 2=	29.4	62.116	
8. Density of Water from Table 2 @ T:			
<i>D</i> =			
V =			
	-		
M) F =			
	n Planeness (0.01"):         Not Acceptable         metric Calibration         2. Mass of Measure + Glass Plate + Water: $W_2$ =         4. Density of Water from Table 2 @ T: $D$ =         6. Mass of Measure + Glass Plate + Water: $W_2$ =         8. Density of Water from Table 2 @ T: $D$ = $W_2$ =         8. Density of Water from Table 2 @ T: $D$ = $W_2$ =         8. Density of Water from Table 2 @ T: $D$ = $V$ = $W$ $W$ $W$ $W$ $W$	Temperature -Not Acceptable $^{\circ}C$ inetric Calibration15.62. Mass of Measure + Glass Plate + Water:21.1 $W_2=$ (23.0)4. Density of Water from Table 2 @ T:23.96. Mass of Measure + Glass Plate + Water:26.7 $W_2=$ 29.48. Density of Water from Table 2 @ T:29.4 $V =$ $V =$	

#### **RESULTS:**

Equipment Status Upon Receipt: Conforms		Nonconforming*
* Who Was Notified?	Corrective Action	
Equipment Status After Adjustment: Conforms		Nonconforming
Standardization Performed By:	Standardization By:	-
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