



Receipt Date: July 3, 2017
Cal. Date: July 14, 2017
Report Date: July 14, 2017

Report No.: 337925
Set Serial No.: None
Barcode: 201669

Calibration Certificate

VALLEY STORE SUPPLY
3502 HIGHWAYS 2 & 52
MINOT, ND 58702-1875
Contact: LOREN HATCHARD
Phone: 701-839-3820
PO Number: None
Procedure: NIST SOP 8
Technician ID: 19

Item(s) Submitted: AVDP Weight Kit - Class F
Manufacturer: Rice Lake & Troemner
Weight Type: I & II
Equipment ID: None
Condition: Good
Temperature: 19.4 °C
Pressure: 740.0 mmHg
Relative Humidity: 42.9 %

Nominal Value	Serial No.	CM Correction (mg)		NIST HB105-1 Class		k	U (mg)
		As Found	As Left	As Found	As Left		
10 lb		226	226	F	F	2.01	12
10 . lb		149	149	F	F	2.01	12
5 lb		-20.6	-20.6	F	F	2.01	6.0
2 lb		37.0	37.0	F	F	2.01	3.1
2 . lb		3.3	3.3	F	F	2.01	3.1
1 lb		33.7	33.7	F	F	2.01	1.6
1 oz		2.74	2.74	F	F	2.00	0.13
1 . oz		2.71	2.71	F	F	2.00	0.13
1/2 oz		1.72	1.72	F	F	2.00	0.11

The resulting tolerance class of the weight is determined by combining the correction of the weight and the uncertainty of the measurement. The corrections given above correlate to a conventional mass scale versus 8.0 g/cm³ density and an air density of 1.2 mg/cm³ at 20 °C. The items listed above have been calibrated using the Standards of the State of Minnesota which are currently in control. These standards are traceable to the SI through NIST. Calibration processes were monitored and found to be in control. All of the tolerances and specifications were evaluated according to NIST Handbook 105-1 (1990). Uncertainty calculations contain the components in NIST SOP 8 and conform to the ISO/IEC Guide to the Expression of Uncertainty in Measurement (2008), including coverage factors (*k*) calculated at the approximate 95.45 % confidence level. Results apply to items identified in this report only.

Erik Alfvin

Metrologist

Reviewed by:

Pete Whebbe

Metrologist