



Receipt Date: July 23, 2018
Cal. Date: July 23, 2018
Report Date: July 23, 2018

Report No.: 339692
Set Serial No.: None; CD1
Barcode: 202559

Calibration Certificate

HAWKEYE STATE SCALE
5040 BLAIRS FOREST WAY NE
CEDAR RAPIDS, IA 52402
Contact: DUANE SYTSMA
Phone: 319-364-4173
PO Number: NONE
Procedure: NIST SOP 8
Technician ID: 11

Item(s) Submitted: Cast Hand Weights
Manufacturer: Fairbanks
Weight Type: II
Equipment ID: None
Condition: Good
Temperature: 21.0 °C
Pressure: 737.7 mmHg
Relative Humidity: 47.6 %

Nominal Value	Serial No.	CM Correction (mg)		ASTM E617 Class		k	U (mg)
		As Found	As Left	As Found	As Left		
10 lb		-1479	65	*	6	2.03	11
5 lb	CD1	-643.7	28.3	7	6	2.03	5.7

* Weight(s) as found exceed largest ASTM Tolerance Class.

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 ASTM E617 (2013). 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.

Pete Whebbe


Metrologist

Reviewed by:

Erik Alfvín


Metrologist