



Receipt Date: May 4, 2015
Test Date: May 4 & May 13, 2015
Report Date: May 13, 2015

State Test No.: 334204
Set Serial No.: SET 0/5001-5006
Barcode: 201194

Calibration Report

NORTHERN BALANCE & SCALE, INC
9556 BLOOMINGTON FREEWAY W
BLOOMINGTON, MN 55431
Contact: JOEY KALUSER
Phone: 952-881-7716
PO Number: NONE
SOP: 12
Technician ID: 11

Item(s) Submitted: Cast Cube Weights
Manufacturer: Rice Lake
ASTM E617 Type: II
Equipment ID#: Set 0
Condition: Good
Temperature: 21.4°C
Pressure: 743. mmHg
Relative Humidity: 38. %

Nominal Value	Serial No.	Correction (g)		NIST HB105-1 Class		Unc. (g) (k=2)
		As Found	As Left	As Found	As Left	
As Found 5/4/15						
500 lb	5001	-2.7	-2.7	F	F	1.1
500 lb	5002	2.	2.	F	F	1.1
500 lb	5003	-0.1	-0.1	F	F	1.1
500 lb	5004	1.1	1.1	F	F	1.1
500 lb	5005	1.4	1.4	F	F	1.1
500 lb	5006	1.5	1.5	F	F	1.1
After cleaning/painting 5/13/15						
500 lb	5001	0.2	0.2	F	F	1.1
500 lb	5002	5.3	5.3	F	F	1.1
500 lb	5003	3.4	3.4	F	F	1.1
500 lb	5004	5.	5.	F	F	1.1
500 lb	5005	4.8	4.8	F	F	1.1
500 lb	5006	3.4	3.4	F	F	1.1

When used as a set these weights meet NIST HB 105-1 class tolerances.

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. The items listed above have been compared to 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. Uncertainty calculations conform to NIST Technical Note 1297. Results apply to items identified in this report only.

Pete Whebbe
Pete Whebbe
Metrologist

Reviewed by:
Mark Nicollet
Mark Nicollet