

**Ellsworth Community College Metrology Laboratory  
Calibration Report**

Ellsworth Community College  
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TF-0402  
04.01.2010



**ELLSWORTH**  
COMMUNITY COLLEGE

Receiving Date: 07.19.2011  
Test Date: 07.20.2011  
Report Date: 07.23.2011

State Test No.: IA1.11.0035  
Set Serial No.: na  
Accreditation: NIST Recognition April 25th 2011 - Dec. 31st 2011

Hawkeye State Scale  
5040 Blair Forest Way  
NE Ste F

Cedar Rapids IA 52404

Contact: John Fischbeck  
Ph.: 319.364.4173  
P.O. No.: na  
SOP: 8 Modified Substitution  
Tech.: A.B.

Item(s) Submitted: CI Standards  
Manufacturer: na  
Class: F  
Equip. ID#: na  
Condition: Good  
Temp. C: 22  
Pressure mmHg: na  
% Relative Humidity: 60

Correction (g)

Nominal Value	Unit	Serial/ID No.	As Found (g)	As Left (g)	Density	Tol.(g)	UNC (g) (k=2)
50	lb	4-68	1.18	1.18	7	2.3	0.27
50	lb	4-55	-0.07	-0.07	7	2.3	0.27
50	lb	4-58	-0.82	-0.82	7	2.3	0.27
50	lb	4-52	1.16	1.16	7	2.3	0.27
50	lb	4-66	1.24	1.24	7	2.3	0.27
50	lb	4-67	1.02	1.02	7	2.3	0.27
50	lb	4-62	0.53	0.53	7	2.3	0.27
50	lb	4-56	-0.98	-0.98	7	2.3	0.27
50	lb	4-65	1.22	1.22	7	2.3	0.27
50	lb	4-51	1.20	1.20	7	2.3	0.27
50	lb	4-29	-5.06	0.01	7	2.3	0.27
50	lb	4-33	-3.58	0.09	7	2.3	0.27
50	lb	4-30	-4.01	0.05	7	2.3	0.27

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/cm<sup>3</sup> density of 1.2 mg/cm<sup>3</sup>. The items listed above have been compared to Standards of Iowa which are currently in control. These standards are traceable to the National Institute of Standards and Technology (NIST). Calibration processes were monitored and found to be in control. Uncertainty calculations conform to NIST Note 1297. Results apply to item identified in this report only.

**Ellsworth Community College Metrology Laboratory**

Laboratory Metrologist  
Andrew Blackburn

Reviewed By  
Ellsworth Community College Metrology Secretary