



SOUTHWEST RESEARCH INSTITUTE®

6220 Culebra Road, P.O. Drawer 28510
Institute Quality Systems
Institute Calibration Laboratory
Phone: 210-522-5215 Fax 210-522-4834



Calibration Laboratory
Certificate #0972-01

Certificate of Calibration

Cost Center / Customer: DIV20 / DON BANNON

Mail Stop: B57

Manufacturer/Model: TROEMNER / 200G

Description: WEIGHT, CLASS 1

Serial Number: 63813

Asset Number: 004199

Procedure: WEIGHTS - 10 DEC 07

Work Order: 303101956

Date Issued: 13-Jun-2011

Date Calibrated: 13-Jun-2011

*** Date Due :** 13-Jun-2012

**** Results:** FOUND-LEFT

Temperature: 69.2 °F

Humidity: 41 %RH

Barometer: N/A

This certificate documents traceability to the National Institute of Standards and Technology (NIST) and the International System of Units (SI). The Laboratory quality system conforms to ISO/IEC 17025, 2005, ANSI/NCSL Z540-1-1994 and relevant requirements of the ISO 9000-2000 standard. This certificate shall not be reproduced, except in full, without the written approval of the Southwest Research Institute Calibration Laboratory. This certificate shall not be used to claim product endorsement by Southwest Research Institute, American Association for Laboratory Accreditation (A2LA) or any agency of the U. S. Government. Results of this calibration relate only to the instrument described above at the time of calibration and does not imply any long term stability of the instrument.

*Determined by the customer, does not imply the instrument will remain within tolerance as any number of factors may cause an out-of-tolerance condition before this date. **Data type found in this certificate or attached measurement report must be interpreted as: Found-left - adjustment and/or repair was not performed, As-found - data is before unit is adjusted and/or repaired, As-left - data is after adjusted and/or repaired was performed. The customer has sole responsibility for determination of in-/out-of-tolerance or compliance/noncompliance.

Measurement uncertainty calculated in accordance with the method described in the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM), for a confidence level of approximately 95 percent using a coverage factor of $k=2$.

Remarks: Weight Class 1

Standards Used

Asset #	Manufacturer	Model	Description	Cal Date	Due Date
012068	SARTORIUS	CC310	MASS COMPARATOR	10-Jan-2011	10-Jan-2012
012758	TROEMNER	200 G *	WEIGHT, CLASS E1	29-Apr-2010	29-Apr-2012

120

Q201106270003
Instrument calibration record for Troemner,
Model # 200G, Serial # 63813, Asset No.:
004199 (06/13/2011)

Walt Hill

Laboratory Manager

m:\A2LA OCT_08.rpt

Carlos Mendoza

Metrology Technician

Southwest Research Institute
Calibration Laboratory
Measurement Report

Work Order:	303101956	Mfr:	Troemner	Technician:	com
Asset No:	004199	Model:	200 gram	Type Data:	Found-left
Serial No:	63813	Type:	Class 1	Cal Date:	13-Jun-11
Remarks:					

Function/Range	Nominal	TI Value	Difference	± Limit	± Uncertainty	Result	% Limit
Conventional Mass	grams	grams	grams	grams	grams		
200 g	200.00000	200.00012	0.00012	0.00050	0.00004	Pass	24%
END OF REPORT							