



SOUTHWEST RESEARCH INSTITUTE®

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Certificate of Calibration

0972-01

Submitted By: DIV20
Address: B57
Contact: DON BANNON
Manufacturer Model: METTLER AE240
Description: BALANCE
Serial No: 101237
Asset No: 001439
Procedure: BALANCES & SCALES - 11 APR, 2006

Work Order: 303069104
Date Issued: May 9, 2006
Calibration Date: May 9, 2006
***Calibration Due:** Nov 9, 2006
Calibration Location: B57
Environment: Temp. 71.0°F Hum. 42 %RH
****Data Type:** FOUND-LEFT

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, 1999, 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. **Found/Left = adjustment and/or repair was not required, As Left = adjusted and/or repaired was required. The client has sole responsibility for determination of in-/out-of-tolerance or compliance/noncompliance. See Remarks or attached Measurement Report with the same Work Order number for data.

Reported uncertainty calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM) and represents an expanded uncertainty with a coverage factor of k=2 to approximate a 95% confidence level.

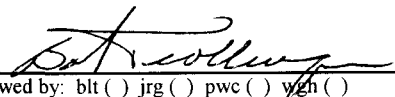
Remarks: None

Standards Used

Asset No.	Serial No.	Manufacturer	Model	Description	Cal Due
001708	C863	RICE LAKE	10G	WEIGHT, CLASS S	Jul 06, 06
001709	C864	RICE LAKE	20G	WEIGHT, CLASS S	Jul 06, 06
001710	C865	RICE LAKE	20G	WEIGHT, CLASS S	Jul 06, 06
001711	C866	RICE LAKE	50G	WEIGHT, CLASS S	Jul 06, 06
001712	C867	RICE LAKE	100G	WEIGHT, CLASS S	Jul 06, 06
001713	C868	RICE LAKE	200G	WEIGHT, CLASS S	Jul 06, 06
001714	C869	RICE LAKE	200G	WEIGHT, CLASS S	Jul 06, 06

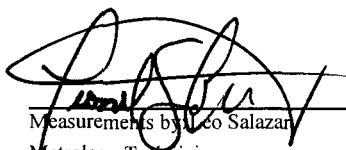
120

Instrument calibration record for Mettler
Balance, Model # AE240, Serial # 101237
(05/09/2006)
Q200605160018


Reviewed by: blt () jrg () pwc () ygh ()

Metrology Technician

m:\a2la1.rpt Rev date August 15, 2005


Measurements by Leo Salazar
Metrology Technician

Southwest Research Institute
Calibration Laboratory
Measurement Report

Work Order:	303069104	Mfr.	Mettler	Technician	lgs
Asset No.	001439	Model	AE240	Cal Date.	09-May-06
Serial No.	101237	Type.	Balance		
Remarks: Manufacturer does not provide corner load specifications. Corner load readings are without pass or fail indications.					
Ambient Conditions		71 ° F	42 % RH	14.31 PSIA	

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
	grams	grams	grams	grams	grams	Result
Corner Load						
Reference	100.00000	100.00001				
Front	100.00001	100.00002	0.00001		0.000084	
Rear	100.00001	100.00003	0.00002		0.000084	
Left	100.00001	100.00001	0.00000		0.000084	
Right	100.00001	100.00001	0.00000		0.000084	
Repeatability						
1	100.00000	100.00001				
2	100.00000	100.00002				
3	100.00000	100.00003				
4	100.00000	100.00001				
5	100.00000	100.00001				
6	100.00000	100.00001				
7	100.00000	100.00002				
8	100.00000	100.00003				
9	100.00000	100.00001				
10	100.00000	100.00001				
Std Deviation		0.00001		0.00020		Pass
Linearity	0.00000	0.00000	0.00000	0.00003	0.000020	Pass
Low Range	4.00000	4.00000	0.00000	0.00003	0.000020	Pass
	8.00000	8.00000	0.00000	0.00003	0.000020	Pass
	12.00000	12.00000	0.00000	0.00003	0.000020	Pass
	16.00000	16.00000	0.00000	0.00003	0.000020	Pass
	20.00000	20.00000	0.00000	0.00003	0.000020	Pass
	24.00000	24.00000	0.00000	0.00003	0.000020	Pass
	28.00000	28.00000	0.00000	0.00003	0.000020	Pass
	32.00000	32.00000	0.00000	0.00003	0.000020	Pass
	36.00000	35.99998	-0.00002	0.00003	0.000020	Pass
	40.00000	39.99997	-0.00003	0.00003	0.000020	Pass
Linearity	0.00000	0.00000	0.00000	0.0002	0.000099	Pass
High Range	20.00000	20.00000	0.00000	0.0002	0.000099	Pass
	40.00000	39.99998	-0.00002	0.0002	0.000099	Pass
	60.00000	59.99998	-0.00002	0.0002	0.000099	Pass
	80.00000	79.99999	-0.00001	0.0002	0.000099	Pass
	100.00000	99.99998	-0.00002	0.0002	0.000099	Pass
	120.00000	119.99998	-0.00002	0.0002	0.000099	Pass
	140.00000	139.99999	-0.00001	0.0002	0.000099	Pass
	160.00000	160.00000	0.00000	0.0002	0.000099	Pass
	180.00000	179.99999	-0.00001	0.0002	0.000099	Pass
	200.00000	200.00000	0.00000	0.0002	0.000099	Pass

End of Report