



SOUTHWEST RESEARCH INSTITUTE®

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Institute Calibration Laboratory
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Certificate of Calibration

0972-01

Submitted By: DIV20
Address: B57
Contact: DON BANNON
Manufacturer Model: ERTCO ASTM 91 C
Description: THERMOMETER
Serial No: 1709
Asset No: 007617
Procedure: TEMPERATURE, JAN/04

Work Order: 303069944
Date Issued: Jun 30, 2006
Calibration Date: Jun 30, 2006
***Calibration Due:** Jun 29, 2007
Calibration Location: Bldg. 64
Environment: Temp. 73.0°F Hum. 40 %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.

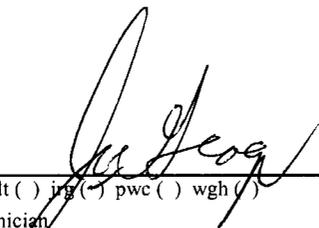
Reported uncertainty calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM) and represents an expanded uncertainty with a coverage factor of k=2 to approximate a 95% confidence level.

Remarks: None

Standards Used

Asset No.	Serial No.	Manufacturer	Model	Description	Cal Due
009137	A21208	HART SCIENTIFIC	1575	THERMOMETER	Dec 22, 06
010281	0421	HART SCIENTIFIC	5628	SPRT	Jun 24, 08

120
Instrument calibration record for ERTCO
Thermometer, Model # ASTM 91C, Serial #
1709 (06/30/2006)


Reviewed by: blt () irg (x) pwc () wgh ()
Metrology Technician
m:\a2la1.rpt Rev date August 15, 2005


Measurements by: Bob Trolling
Metrology Technician

Southwest Research Institute
Calibration Laboratory
Measurement Report

Work Order:	303069944	Mfr:	Ertco	Technician:	blt
Asset No:	007617	Model:	ASTM 91 C		
Serial No:	1709	Type:	THERMOMETER	Cal Date:	30-Jun-06
Remarks:	Accuracy Reference ASTM E1 - 03a				

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
Temperature	°C	°C	°C	°C	°C	Result
20	20.000	20.05	0.05	0.1	0.30	Pass
30	30.022	30.01	-0.01	0.1	0.30	Pass
40	40.014	40.05	0.04	0.1	0.30	Pass
50	50.020	50.01	-0.01	0.1	0.30	Pass

END OF REPORT