

9010 River Road
Huron, OH 44839
Ph: 419-433-1101
Fax: 419-433-1102
www.geocorpinc.com

GeoCorp, Inc.

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 9010 River Road • Huron, Ohio 44839
 P: 419-433-1101 F: 419-433-1102
 17025 Accredited Lab

Certificate of Calibration & Compliance For:
 Accurate Calib. & Repair Serv., Inc
 1924 Pinnacle Dr.
 Aurora, IL 60502



NVLAP LAB CODE: 200496-0
 NVLAP is a U.S. Government entity
 administered by the NIST, an agency
 of the Department of Commerce.

Calibration #	P-3388	Temperature	Reading		Correction		ASTM E29 AVG. CORRECTION
			Point	FRONT	BACK	FRONT	
Degree: °	F						
P.O. #:	344960	100	100.3	100.2	-0.3	-0.2	-0.2
Description: Type: N Thermocouple 21 EA 2-36N1U1 (1/8" X 36")		300	300.6	300.5	-0.6	-0.5	-0.6
		500	500.9	500.8	-0.9	-0.8	-0.8
		700	701.2	701.1	-1.2	-1.1	-1.2
		900	901.6	901.4	-1.6	-1.4	-1.5
		1100	1102.1	1101.9	-2.1	-1.9	-2.0
		1300	1302.7	1302.6	-2.7	-2.6	-2.6
		1500	1502.8	1503.0	-2.8	-3.0	-2.9
		1700	1701.5	1701.7	-1.5	-1.7	-1.6
		1900	1900.2	1900.4	-0.2	-0.4	-0.3
		2000	1999.5	1999.7	0.5	0.3	0.4
Spool #	MG12583C						
Test Date:	3/24/2015						
Job #	166695						

This Item meets ASTM E230 Special Limits Standard Limits New Calibration Recalibration
 BAC 5621 K, Table IV +/- 2 °F (+/- 1.1° C) to 1000° F, 0.4% above AMS 2750 E Noble Metal +/- 1° F (+/- 0.6 ° C) or 0.1%
 BAC 5621 K, Table IV, FL 4 +/- 2 °F (+/- 1.1° C) or 0.4% AMS 2750 E Base Metal +/- 2° F (+/- 1.1° C) or 0.4%

The calibrated equipment used for this test, listed below, is maintained in accordance with AMS 2750E, BAC 5621K (no PSD's), ANSI/NCSL Z540-1, ISO 10012, ISO 17025, RPS 953, PWA (F-40). Measurement results are traceable to standards maintained at the NIST. Test methods are per ASTM E220-13, ASTM E230/E230M-12, GEOCORP QW-001-M

NIST SENSOR: 286134 Calibrated: 12/3/2014 Due: 12/3/2015 Type: S	Working Std: A-3620 Calibrated: 3/21/2015 Due: 3/21/2016 Type: S	Instrument: Keithley 2701 S/N: 1118487 Calibrated: 8/13/2014 Due: 8/13/2015	Humidity: 40% Nominal Ambient Temp: 72° F Immersion Depth: 24" tech: wc by: ck
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Estimated uncertainty, k=2, 95%
 Thermocouple Types-K and N: -196° C to < 0° C = .71° C; 0° C to 1093 = .89° C; >1093 to 1344 = 1.9° C
 Thermocouple Type-J: -196° C to < 0° C = .70° C; 0° C to 760° C = .88° C

Mike Fries
 Mike Fries
 APPROVED SIGNATORY

Type: N Thermocouple

