



Certificate of Calibration & Compliance For:
ILLIANA INSTRUMENTATION SERVICE
1831 GOVERT DRIVE
SCHERERVILLE, IN 46375



CALIBRATION
NVLAP LAB CODE: 200496-0

GeoCorp, Inc.

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17025 Accredited Lab

Item 1648

NVLAP is a U.S. Government entity
administered by the NIST, an agency
of the Department of Commerce.

Calibration #	T-3318	Temperature	Reading		Correction		ASTM E29 AVG. CORRECTION
			FRONT	BACK	FRONT	BACK	
Degree:	° F	Point	32.2	32.2	-0.2	-0.2	-0.2
P.O. #:	3728	100	100.3	100.3	-0.3	-0.3	-0.3
Description: TYPE-K THERMOCOUPLE WIRE K20-2-HG 1000'		200	200.1	200.1	-0.1	-0.1	-0.1
		400	400.4	400.5	-0.4	-0.5	-0.4
		600	600.8	600.9	-0.8	-0.9	-0.8
		800	801.3	801.4	-1.3	-1.4	-1.4
		1000	1001.5	1001.6	-1.5	-1.6	-1.6
		1200	1201.6	1201.7	-1.6	-1.7	-1.6
		1400	1402.6	1402.7	-2.6	-2.7	-2.6
		1600	1602.5	1602.5	-2.5	-2.5	-2.5
Spool #	GK70401-18-18						
Test Date:	5/5/2017						
Job #:	194488						

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 Z540-3, ISO 10012, ISO/IEC 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-N

NIST SENSOR: 288994 Calibrated: 8/26/2016 Due: 8/26/2017 Type: S	Working Std: A-3869 Calibrated: 3/21/2017 Due: 3/21/2018 Type: S	Instrument: Keithley 2701 S/N: 1030819 Calibrated: 8/2/2016 Due: 8/2/2017	Humidity: 40% Nominal Ambient Temp: 72° F Immersion Depth: 24" tech: CT by: CT
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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

Noreen Roth
NOREEN ROTH
APPROVED SIGNATORY

TYPE-K THERMOCOUPLE WIRE

