



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



CALIBRATION
NVLAP LAB CODE: 200496-0

GeoCorp, Inc.

www.geocorpinc.com

9010 River Road • Huron, Ohio 44839

P: 419-433-1101 F: 419-433-1102

17025 Accredited Lab

ITEM 1656

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

Calibration #	W-1570	Temperature	Reading		Correction		ASTM E29 AVG. CORRECTION
			Point	FRONT	BACK	FRONT	
Degree:	° F						
P.O. #:	3799	100	100.6	100.6	-0.6	-0.6	-0.6
Description: TYPE-K THERMOCOUPLE WIRE K20-2-HC 500'		200	200.9	200.9	-0.9	-0.9	-0.9
		400	401.5	401.6	-1.5	-1.6	-1.6
		600	600.8	600.9	-0.8	-0.9	-0.8
		800	800.4	800.5	-0.4	-0.5	-0.4
		1000	999.6	999.7	0.4	0.3	0.4
		1200	1199.0	1199.1	1.0	0.9	1.0
		1400	1399.4	1399.5	0.6	0.5	0.6
		1600	1600.3	1600.3	-0.3	-0.3	-0.3
		1800	1801.3	1801.2	-1.3	-1.2	-1.2
		2000	2002.4	2002.3	-2.4	-2.3	-2.4
		2200	2203.5	2203.4	-3.5	-3.4	-3.4
		2300	2304.1	2304.0	-4.1	-4.0	-4.0
Spool #	GK71024-2-5B						
Test Date:	1/2/2018						
Job #:	203634						

This Item meets ASTM E230 Special Limits Standard Limits New Calibration Recalibration

BAC 5621 L, 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 L, 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 5621L (no PSD's), ANSI/NCSS 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-17, GEORCORP QW-001-N

NIST SENSOR: 289919 Calibrated: 5/5/2017 Due: 5/5/2018 Type: S	Primary Sensor: A-3963 Calibrated: 12/5/2017 Due: 12/5/2018 Type: S	Primary Inst: Keithley 2701 S/N: 1030819 Calibrated: 7/31/2017 Due: 7/31/2018	Humidity: 40% Nominal Ambient Temp: 72° F Immersion Depth: 24" tech: BW by: BW
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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

Curtis Templeton
CURTIS TEMPLETON
APPROVED SIGNATORY

TYPE-K THERMOCOUPLE WIRE

GRAPH DATA

VARIATION FROM TRUE TEMPERATURE

