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 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 #	R-7609	Temperature	Reading		Correction		ASTM E29 AVG. CORRECTION	
			Point	FRONT	BACK	FRONT		BACK
Degree: °	F							
P.O. #:	20160405	32	31.7	31.8	0.3	0.2	0.2	
Description: Type: N Thermocouple 22 ea. 1-14N1U1 10 ea. 1-20N1U1 14 ea. 1-18N1U1 10 ea. 1-24N1U1 10 ea. 1-32N1U1 10 ea. 1-36N1U1 20 ea. 1-48N1U1 4 ea. 1-50N1U1 4 ea. 1-66N1U1 2 ea. 1-96N1U1		200	199.0	199.1	1.0	0.9	1.0	
		400	399.2	399.4	0.8	0.6	0.7	
		600	599.4	599.6	0.6	0.4	0.5	
		800	798.9	798.9	1.1	1.1	1.1	
		1000	998.8	998.7	1.2	1.3	1.2	
		1200	1199.4	1199.4	0.6	0.6	0.6	
		1400	1400.8	1401.0	-0.8	-1.0	-0.9	
		1600	1601.2	1601.3	-1.2	-1.3	-1.2	
		1800	1799.7	1799.7	0.3	0.3	0.3	
		2000	2000.8	2000.6	-0.8	-0.6	-0.7	
		2200	2200.6	2200.4	-0.6	-0.4	-0.5	
		2350	2349.5	2349.4	0.5	0.6	0.6	
Spool #	MG16000C							
Test Date:	4/8/2016							
Job #	179231							

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: 287605 Calibrated: 11/24/2015 Due: 11/24/2016 Type: S	Working Std: A-3705 Calibrated: 1/28/2016 Due: 1/28/2017 Type: S	Instrument: Keithley 2701 S/N: 1030819 Calibrated: 7/28/2015 Due: 7/28/2016	Humidity: 40% Nominal Ambient Temp: 72° F Immersion Depth: 24" tech: bw 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

Noreen Roth
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 APPROVED SIGNATORY

Type: N Thermocouple

GRAPH DATA VARIATION FROM TRUE TEMPERATURE

