



GeoCorp, Inc.

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17025 Accredited Lab

Certificate of Calibration & Compliance For:

ILLIANA INSTRUMENTATION SERVICE

1831 GOVERT DRIVE

SCHERERVILLE, IN 46375



CALIBRATION

NVLAP LAB CODE: 200496-0

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

ITEM 1704

| Calibration # | BA9866 | Temperature | Reading | | Correction | | ASTM E29 AVG. CORRECTION |
|---------------|-------------------|-------------|---------|--------|------------|------|--------------------------|
| | | | FRONT | BACK | FRONT | BACK | |
| Degree: ° | F | Point | | | | | |
| | | 100 | 99.8 | 99.8 | 0.2 | 0.2 | 0.2 |
| P.O. #: | 4158 | 200 | 199.6 | 199.6 | 0.4 | 0.4 | 0.4 |
| | | 400 | 399.0 | 399.1 | 1.0 | 0.9 | 1.0 |
| Description: | Thermocouple Wire | 600 | 598.5 | 598.6 | 1.5 | 1.4 | 1.4 |
| TYPE | K | 800 | 798.3 | 798.3 | 1.7 | 1.7 | 1.7 |
| 1000' | K20-2-HC | 1000 | 998.1 | 998.0 | 1.9 | 2.0 | 2.0 |
| | | 1200 | 1198.2 | 1198.1 | 1.8 | 1.9 | 1.8 |
| | | 1400 | 1399.0 | 1398.9 | 1.0 | 1.1 | 1.0 |
| | | 1600 | 1600.0 | 1599.8 | 0.0 | 0.2 | 0.1 |
| | | 1800 | 1801.0 | 1800.8 | -1.0 | -0.8 | -0.9 |
| | | 2000 | 2002.0 | 2001.8 | -2.0 | -1.8 | -1.9 |
| | | 2200 | 2203.0 | 2202.9 | -3.0 | -2.9 | -3.0 |
| | | 2300 | 2303.5 | 2303.4 | -3.5 | -3.4 | -3.4 |
| Spool Length: | 1000' | | | | | | |
| Spool # | GK01102-29-7 | | | | | | |
| Test Date: | 1/15/2021 | | | | | | |
| Job #: | 245289 | | | | | | |

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

BAC 5621 L, Table V +/- 2 °F (+/- 1.1° C) to 1000° F, +/- 0.4% above AMS 2750 F Noble Metal +/- 1° F (+/- 0.6° C) or +/- 0.1%

BAC 5621 L, Table V, FL 4 +/- 2 °F (+/- 1.1° C) or +/- 0.4% AMS 2750 F 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 2750F, BAC 5621L (no PSD's), ANSI/NCSL Z540-3, ISO 10012, ISO/IEC 17025, RRP 54000, PWA (F-40). Measurement results are traceable to standards maintained at the NIST. Test methods are per ASTM E220-19, ASTM E230/E230M-17, GEOCORP QW-001-O

| | | | |
|---|--|--|--|
| NIST SENSOR: 0000001650 Calibrated: 10/2/2020 Due: 10/2/2021 Type: S | Primary Sensor: A-4293 Calibrated: 10/27/2020 Due: 10/27/2021 Type: S | Primary Inst: Keithley 2701 S/N: 1212892 Calibrated: 7/8/2020 Due: 7/8/2021 | Humidity: 40% Nominal Ambient Temp: 72° F Immersion Depth: 24" tech: BW by: BW Issue Date: 1/15/2021 |
|---|--|--|--|

Estimated uncertainty, k=2, 95 %
 Thermocouple Types-K and N: -196 °C to < 0 °C = 0.71 °C; 0 °C to 1093 = 0.89 °C; >1093 to 1344 = 1.9 °C
 Thermocouple Type-J: -196 °C to < 0 °C = 0.70 °C; 0 °C to 760 °C = 0.88 °C

Noreen Roth
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 APPROVED SIGNATORY

TYPE K Thermocouple Wire

