

## Scope of Accreditation For Heat Treating Services Unlimited, Inc.

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In recognition of a successful assessment to ISO/IEC 17025:2005, accreditation is granted to **Heat Treating Services Unlimited, Inc.** to perform the following **Calibrations**:

Accreditation granted through: **May 10, 2009**

### Calibration

#### Electricity and Magnetism – Voltage

Calibration Parameter/Equipment	Range	Best Measurement Capability(+/-) <sup>2</sup>	Remarks
DC Voltage Simulation	0 mV to 110 mV	.08 mV	Calibrations performed with a Fluke 743B or equivalent
	110 mV to 1.1 V	.08 mV	
	1.1 V to 15 V	.08 mV	
DC milliAmps Simulation	0 mA to 4 mA	0.082 mA	
	4 mA to 20 mA	0.3 mA	

#### Electricity and Magnetism – Electrical Temperature Simulation

Calibration Parameter/Equipment	Range	Best Measurement Capability(+/-) <sup>2</sup>	Remarks
Thermocouple Electronic Simulation Type K	-100 °C to 400 °C	1.3 °C	Calibrations performed with a Fluke 743B or equivalent
	400 °C to 1200 °C	1.4 °C	
	1200 °C to 1372 °C	1.3 °C	
Type J	-100 °C to 800 °C	1.2 °C	
	800 °C to 1200 °C	1.3 °C	
Type S	0 °C to 200 °C	1.9 °C	
	200 °C to 1400 °C	1.7 °C	
	1400 °C to 1767 °C	1.8 °C	
Type R	-20 °C to 0 °C	2.0 °C	
	0 °C to 100 °C	1.9 °C	
	100 °C to 1767 °C	1.7 °C	
Type N	-100 °C to 900 °C	1.3 °C	
	900 °C to 1300 °C	1.2 °C	

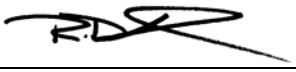
Calibration Parameter/Equipment	Range	Best Measurement Capability(+/-) <sup>2</sup>	Remarks
Type T	-200 °C to 0 °C 0 °C to 400 °C	1.2 °C 1.3 °C	Calibrations performed with a Fluke 743B or equivalent

**Thermodynamic – Thermodynamic Devices (all)**

Calibration Parameter/Equipment	Range	Best Measurement Capability(+/-) <sup>2</sup>	Remarks
RTD Electronic Simulation	0 to 400 °C 400 °C to 800 °C	1.13 °C 1.20 °C	Calibrations performed with a Fluke 743B or equivalent

**Notes:**

- 1) Laboratory offers calibration services at the laboratory's own facilities and at the client or other agreed upon facilities.
- 2) Best uncertainties represent expanded uncertainties at approximately the 95% confidence level using a coverage factor of k=2.

Approved by:  \_\_\_\_\_ Date: January 22, 2007

R. Douglas Leonard  
Chief Technical Officer

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