CERTIFICATE OF ACCREDITATION

This is to attest

SPECIALLOY

11702 BRITTMOORE PARK DRIVE
HOUSTON, TEXAS 77041, U.S.A.

Calibration Laboratory CL-296

has met the requirements of AC204, *IAS Accreditation Criteria for Calibration Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Expiration Date November 1, 2026
Effective Date October 7, 2025

International Accreditation Service
Issued under the authority of IAS management

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

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Accredited to ISO/IEC 17025:2017 *Effective Date October 7, 2025*

CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Dimensional			
Calipers	Up to 36 in	33 µin/in + 200 µin	CAL-PROC-Q13 Gagemaker MIC-TRAC MT-4000
Inside Micrometers	Up to 36 in	47 µin/in + 200 µin	CAL-PROC-Q18, Gagemaker MIC-TRAC MT-4000
Outside Micrometers	Up to 36 in	33 µin/in + 200 µin	CAL-PROC-Q17 Gagemaker MIC-TRAC MT-4000
Depth Micrometers	Up to 12 in	140 µin/in + 200 µin	CAL-PROC-Q20, Gagemaker MIC-TRAC MT-4000
Indicators	Up to 2 in	0.0017in/in+ 200 µin	CAL-PROC-Q15, Gagemaker MIC-TRAC MT-4000
End Rods/Length Standards	Up to 35 in	34 µin /in + 200 µin	CAL-PROC-Q19, Gagemaker MIC-TRAC MT-4000
Thread Plugs	0 in to 12 in	1400 µin/in + 8 µin	CAL-PROC-Q19, Gagemaker MIC-TRAC MT-4000
Height Gages	Up to 36 in	36 µin/in + 200 µin	CAL-PROC-Q29, Gagemaker MIC-TRAC MT-4000
Optical Comparator Linearity Magnification	 Up to 12 in 10X	 140 µin/in + 200 µin 5.4 %	CAL-PROC-Q32 Glass Scale, glass stage, glass reticle

** If information in this CMC is presented in non-SI units, the conversion factors stated in NIST Special Publication 811 "Guide for the Use of the International System of Units (SI)" apply.*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Mechanical			
Torque Wrenches	5 lbf-in to 50 lbf-in 40 lbf-in to 400 lbf-in 25 lbf-in to 250 lbf-ft 100 lbf-in to 600 lbf-ft	0.9 % 1.4 % 0.2 % 1.1 %	CAL-PROC-Q04 Digital Torque Tester
Pressure Gages	 -30 psi to 30 psi Up to 15,000 psi Up to 15,000 psi Up to 100,000 psi	 2.9 % +0.0002 psi 0.012 % + 0.0002 psi 0.011 % + 0.0002 psi 0.033 % + 0.0002 psi	CAL-PROC-Q01, CAL-PROC-Q03, CAL-PROC-Q05. Additel 161 Additel ADT793-15k Fluke RPM3-0-30k Viatran 34EGS-100K
Thermal			
Temperature – Thermometers, Thermocouples, RTDs	75 °F to 500 °F -32 °F to 329 °F	0.26 % 0.37 %	CAL-PROC-Q06 Omega CL1000 SIKA TP3M165E
Temperature Sensor/Transmitters	-32 °F to 329 °F	0.37 %	CAL-PROC-Q06 SIKA TP3M165E
Electrical – DC/LF			
DC Voltage – Generate[3]	0 mV to 104 mV 0.104 V to 1.04 V 1.04 V to 10.4 V 10.4 V to 104 V 104 V to 1020 V	180 uV/V + 2 uV 69 uV/V + 2.5 uV 58 uV/V + 2.4 uV 27 uV/V + 2.4 uV 43 uV/V + 2.4 uV	CAL-PROC-Q28 Transmille 1000A
DC Voltage – Measure[4]	0 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V	4 uV/V + 1.1 uV 4.3 mV/V + 1.1 uV 8.7 uV/V + 13 uV 47 uV/V + 1.2 mV 49 uV/V + 17 mV	CAL-PROC-Q28 Keysight 34461A
DC Current – Generate[3]	0 µA to 104 µA 0.104 mA to 1.04 mA 1.04 mA to 10.4 mA 10.4 mA to 104 mA 104 mA to 1040 mA 1.04 A to 10.2 A	420 µA/A + 0.1 µA 160 µA/A + 0.3 µA 120 µA/A + 0.2 µA 130 µA/A + 2 µA 140 µA/A + 2 µA 160 µA/A + 30 µA	CAL-PROC-Q28 Transmille 1000A

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
DC Current – Measure[4]	0.1 mA to 1 mA 1 mA to 10 mA 10 mA to 100 mA 0.1 A to 1 A	420 µA/A + 4 µA 520 µA/A + 2.9 µA 120 µA/A + 0.2 µA 1100 µA/A + 130 µA	CAL-PROC-Q28 Keysight 34461A
AC Voltage – Generate[3]			
(0 to 104) mV	10 Hz to 1.999 kHz (2 to 20) kHz	2600 µV/V + 2 µV 1300 µV/V + 2 µV	CAL-PROC-Q28 Transmille 1000A
(0.104 to 1.04) V	10 Hz to 1.999 kHz (2 to 20) kHz	420 µV/V + 1.2 µV 420 µV/V + 1.2 µV	
(1.04 to 10.4) V	10 Hz to 1.999 kHz (2 to 20) kHz	1.2 mV/V + 1 mV 2.5 mV/V + 1 mV	
(10.4 to 104) V	40 Hz to 1 kHz	390 µV/V + 12 mV	
(104 to 1020) V	10 Hz to 1 kHz	41 µV/V + 12 mV	
AC Voltage – Measure[4]			
100 mV to 1 V	10 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz	710 µV/V + 0.1 mV 710 µV/V + 0.1 mV 5.5 mV/V + 54 µV	CAL-PROC-Q28 Keysight 34461A
1 V to 10 V	10 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz	680 µV/V + 4.2 mV 1400 µV/V + 7.2 mV 6200 µV/V + 17 mV	
10 V to 100 V	10 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz	580 µV/V + 42 mV 1300 µV/V + 72 mV 6300 µV/V + 160 mV	
100 V to 750 V	(20 to 50) kHz (50 to 100) kHz	1200 µV/V + 570 µV 6000 µV/V + 1.4 V	

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
AC Current – Generate[3]			
(10.4 to 104) µA	10 Hz to 2 kHz	4200 µA/A + 0.15 µA	CAL-PROC-Q28 Transmille 1000A
(0.104 to 1.04) mA	10 Hz to 2 kHz	2500 µA/A + 0.2 µA	
(1.04 to 10.4) mA	10 Hz to 2 kHz	1100 µA/A + 2 µA	
(10.4 to 104) mA	10 Hz to 2 kHz	960 µA/A + 2 µA	
(104 to 1040) mA	10 Hz to 2 kHz	68 µA/A + 2 µA	
AC Current – Measure[4]			
(0.1 to 1) mA	3 Hz to 5 kHz (5 to 10) kHz	5800 µA/A + 01 µA 1200 µA/A + 0.5 uA	CAL-PROC-Q28 Keysight 34461A
(0 to 10) mA	3 Hz to 5 kHz	1400 µA/A + 4.6 µA	
	(5 to 10) kHz	1400 µA/A + 4.6 µA	
(10 to 100) mA	3 Hz to 5 kHz	1400 µA/A + 4.6 µA	
	(5 to 10) kHz	1200 µA/A + 4.6 µA	
(0.1 to 1) A	10 Hz to 5 kHz	1700 µA/A + 0.2 µA	
	(5 to 10) kHz	2000 µA/A + 0.2 µA	
Resistance – Generate[3]	10 Ω to 100 Ω 100 Ω to 1 kΩ (1 to 10) kΩ (10 to 100) kΩ 100 kΩ to 1 MΩ	220 µΩ/Ω + 5 mΩ 22 µΩ/+ 5 mΩ 2.2 µΩ/+ 5 mΩ 0.24 µΩ/+ 5 mΩ 0.24 µΩ/+ 5 mΩ	CAL-PROC-Q28 Transmille 1000A
Resistance – Measure[4]	100 Ω to 1 kΩ 1 kΩ to 10 kΩ 10 kΩ to 100 kΩ 100 kΩ to 1 MΩ 1 MΩ to 10 MΩ	16 µΩ/Ω + 81 uΩ 0.88 µΩ/Ω + 3.2 mΩ 4.9 µΩ/Ω + 2 mΩ 49 µΩ/Ω + 2 mΩ 40 µΩ/Ω + 2 uΩ	CAL-PROC-Q28 Keysight 34461A
Thermocouple Simulation	S (-50 to 1768) °C R (-50 to 1768) °C B (32 to 1820) °C K (270 to 1372) °C N (-270 to 1300) °C E (-270 to 1000) °C	0.25 % 0.25 % 0.24 % 0.32 % 0.33 % 0.44 %	CAL-PROC-Q10 Additel 222A

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
	J (-270 to 1200) °C T (-270 to 400) °C	0.37 % 1.1 %	
Time and Frequency			
Frequency – Measure[4]	(10 to 100) Hz 100 Hz to 1 kHz (1 to 20) kHz	1.1 % 0.084 % 0.006 %	CAL-PROC-Q28 Keysight 34461A
Frequency – Source[3]	(10 to 100) Hz 100 Hz to 1 kHz (1 to 20) kHz	0.83 % 0.11 % 0.005 %	CAL-PROC-Q28 Transmille Q1000

[1]The uncertainty covered by the Calibration and Measurement Capability (CMC) is expressed as the expanded uncertainty having a coverage probability of approximately 95 %. It is the smallest measurement uncertainty that a laboratory can achieve within its scope of accreditation when performing calibrations of a best existing device. The measurement uncertainty reported on a calibration certificate may be greater than that provided in the CMC due to the behavior of the calibration item and other factors that may contribute to the uncertainty of a specific calibration.

[2]When uncertainty is stated in relative terms (such as percent, a multiplier expressed as a decimal fraction or in scientific notation), it is in relation to instrument reading or instrument output, as appropriate, unless otherwise indicated.

[3]Capability is suitable for the calibration of measuring devices in the stated ranges.

[4]Capability is suitable for the calibration of devices intended to generate the indicated quantity in the stated ranges.