



THE AMERICAN ASSOCIATION FOR
LABORATORY ACCREDITATION

ACCREDITED LABORATORY

A2LA has accredited

ICL CALIBRATION LABORATORIES, INC.
Stuart, FL

for technical competence in the field of **Calibration**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This laboratory also meets the requirements of ANSI/NCSL Z540-1-1994 and any additional program requirements in the field of calibration. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 18 June 2005*).

Presented this 4th day of January 2007.

A handwritten signature in black ink, appearing to read "Peter Mlynar", written over a horizontal line.

President
For the Accreditation Council
Certificate Number 526.01
Valid to November 30, 2008



For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005
& ANSI/NCSL Z540-1-1994

ICL CALIBRATION LABORATORIES, INC.
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CALIBRATION

Valid To: November 30, 2008

Certificate Number: 0526.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations¹:

I. Thermodynamics

| Parameter | Range | Best Uncertainty ² (±) | Comments |
|--|--|---|---|
| Temperature – Measuring Equipment | Approx. -196 °C -80 °C -40 °C | 6.2 mK 8.9 mK 8.9 mK | Liquid nitrogen |
| | 0 °C 0.01 °C | 3.9 mK 1.9 mK | Ice point reference Triple point cell |
| | 100 °C 200 °C 300 °C 420 °C 500 °C 700 °C 1000 °C | 8.5 mK 9.4 mK 9.8 mK 14 mK 0.034 °C 0.26 °C 0.86 °C | Liquid in glass thermometers per ASTM E77, PRTs, thermistors, thermocouples |
| Surface Thermometers | 35 °C to 100 °C >100 °C to 200 °C >200 °C to 300 °C >300 °C to 400 °C | 0.51 °C 0.79 °C 1.1 °C 1.7 °C | Hart 3125 surface calibrator |
| Humidity | 10 % to 95 % | 0.7 % | Thunder scientific 2500 |

II. Mechanical

| Parameter | Range | Best Uncertainty ² (±) | Comments |
|-----------|--|--|---|
| Mass | (1 to 500) mg 500 mg to 1 g 1 g 2 g 3 g 5 g 10 g 20 g 30 g 50 g 100 g 200 g 300 g 500 g 1 kg 2 kg 3 kg 5 kg | 0.0028 mg 0.0032 mg 0.0052 mg 0.0055 mg 0.007 mg 0.01 mg 0.013 mg 0.015 mg 0.023 mg 0.025 mg 0.035 mg 0.083 mg 0.2 mg 0.25 mg 0.4 mg 1.7 mg 2.5 mg 4 mg | ASTM Class 1 weights and equivalents in other classifications |
| Volume | Up to 250 mL (>250 to 600) mL 1000 mL | 0.005 mL 0.043 mL 0.18 mL | By gravimetry; measured with distilled water, ASTM E542 |

III. Fluid Quantities

| Parameter | Range | Best Uncertainty ² (±) | Comments |
|----------------------------------|---|--|--|
| Hydrometry – Specific Gravity | (1.100 to 2.000) SG 1.100 SG 1.000 SG 0.900 SG 0.800 SG 0.700 SG 0.650 SG | 0.00075 SG 0.00018 SG 0.00017 SG 0.00016 SG 0.00016 SG 0.00015 SG 0.00015 SG | Specific gravity (relative density) hydrometers and equivalent values in other hydrometer scales |

| Parameter | Range | Best Uncertainty ² (±) | Comments |
|--------------------------------|---|---|-----------------|
| Hydrometry (cont) – API | -5° API 0° API 5° API 10° API 15° API 20° API 25° API 30° API 35° API 40° API 45° API 50° API 55° API 60° API 65° API 70° API 75° API 80° API 85° API 90° API 92.5° API | 0.020 API 0.021 API 0.023 API 0.024 API 0.026 API 0.026 API 0.028 API 0.030 API 0.031 API 0.033 API 0.035 API 0.037 API 0.039 API 0.040 API 0.042 API 0.044 API 0.046 API 0.048 API 0.050 API 0.052 API 0.054 API | API hydrometers |

¹This laboratory offers commercial calibration service.

² “Best Uncertainty” is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards of nearly ideal measuring equipment. Best uncertainties represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The best uncertainty of a specific calibration performed by the laboratory may be greater than the best uncertainty due to the behavior of the customer’s device and to influences from the circumstances of the specific calibration.