



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

DELTA TRAC – DIVISION OF DELTA SALES ASSOCIATES, INC.
8171 Main Street
Buffalo, NY 14221
Lawrence R. Wozniak Phone: 716 631 8103

CALIBRATION

Valid To: April 30, 2018

Certificate Number: 1569.01

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

I. Dimensional

Parameter/Equipment	Range	CMC ^{2,4} (±)	Comments
Plating Thickness Gages ³ –			Thickness standards with:
X-Ray Fluorescence	Up to 0.004 in	4.0 %	ASTM B568
Beta Backscatter	Up to 0.010 in	5.5 %	ASTM B567
Coulometric	Up to 0.002 in	10 %	ASTM B504
Coating Thickness Gages ³ –			Thickness standards with:
Eddy Current	(0.001 to 1.0) in	4.5 %	ASTM B244
Magnetic Induction	(0.001 to 1.0) in	4.0 %	ASTM B499

Parameter/Equipment	Range	CMC ^{2,4} (±)	Comments
Coating Thickness Standards – Alloy Coated Standards	Up to 3000 µin (1 st layer)	4.0 %	ASTM B568 X-Ray fluorescence
	Up to 3000 µin (2 nd layer)	4.2 %	
	Up to 1000 µin	5.1 %	
Foil Standards	Up to 60 mils	4.5 %	ASTM B499 magnetic induction

II. Optical Quantities

Parameter/Equipment	Range	CMC ^{2,4} (±)	Comments
Color Difference Gages – Spectrophotometers & Colorimeters ³	Up to 100 % reflectance	5.5 %	ASTM D2244
Tri-Stimulus Gloss Gages ³ (Converging Beam)	Up to 100 GU	2.8 %	ASTM D523
Electrical Conductivity Of Non-Ferrous Metals	(1 to 105) % IACS, (0.6097 to 60.00) MS/m	1.2 %	ASTM E1004

¹ This laboratory offers commercial and field calibration service.

² Calibration and Measurement Capability Uncertainty (CMC) 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 or nearly ideal measuring equipment. CMCs Capabilities represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

³ Field calibration service is available for this calibration and this laboratory meets A2LA R104 – *General Requirements: Accreditation of Field Testing and Field Calibration Laboratories* for these calibrations. Please note the actual measurement uncertainties achievable on a customer's site can normally be expected to be larger than the CMC found on the A2LA Scope. Allowance must be made for aspects such as the environment at the place of calibration and for other possible adverse effects such as those caused by transportation of the calibration equipment. The usual allowance for the actual uncertainty introduced by the item being calibrated, (e.g. resolution) must also be considered and this, on its own, could result in the actual measurement uncertainty achievable on a customer's site being larger than the CMC.

⁴ In the statement of CMC, percentages are percentage of reading, unless otherwise indicated.

A handwritten signature in black ink, appearing to be 'L. S. J.', located at the bottom right of the page.



Accredited Laboratory

A2LA has accredited

DELTA TRAC

Buffalo, NY

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 8 January 2009*).



Presented this 15th day of July 2016.

A handwritten signature in black ink, appearing to read "L. S. ...", positioned above a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 1569.01
Valid to April 30, 2018

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