



THE AMERICAN ASSOCIATION FOR
LABORATORY ACCREDITATION

ACCREDITED LABORATORY

A2LA has accredited

UPA TECHNOLOGY INC.

West Chester, OH

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 6th day of October 2008.

A handwritten signature in cursive script, reading "Peter Abney".

President
For the Accreditation Council
Certificate Number 1588.01
Valid to November 30, 2010

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

UPA TECHNOLOGY INC.
8963 Cincinnati-Columbus Rd
West Chester, OH 45069
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CALIBRATION

Valid To: November 30, 2010

Certificate Number: 1588.01

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	Best Uncertainty ² (±)	Comments
Coating Thickness Standards –			
Foil and Coated Plates	(0 to 2500) µin	4 % (single layer) rdg 13 % (second layer) rdg	X-Ray fluorescence
Thickness Shims	(0 to 0.2) in	5.4 µin	Solatron P/N 50 2000
Coating Thickness Measuring Equipment –			
X-Ray Fluorescence Machines	(0 to 2500) µin	4 % (single layer) rdg 13 % (second layer) rdg	ASTM B568
Eddy Current & Magnetic Induction Coating Thickness Testers ³	(0 to 40) mil	4 % rdg	ASTM E376

Parameter/Equipment	Range	Best Uncertainty ² (±)	Comments
Coating Thickness Measuring Equipment (cont.) –			
Beta Backscatter Coating Thickness Testers ³	(0 to 4000) μin	6.8 % rdg	ASTM B567
Through Hole Conductivity Testers ³	(1 to 10 000) μΩ	0.3 % rdg	Shunt standards
Coulometric Coating Thickness Testers ³	(2 to 1250) μin	4 % rdg	ASTM B504

¹ This laboratory offers commercial and field 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, to the environment 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 uncertainties achievable on a customer's site can normally be expected to be larger than the Best Measurement Capabilities (BMC) that the accredited laboratory has been assigned as Best Uncertainty 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 uncertainty introduced by the item being calibrated, (e.g. resolution) must also be considered and this, on its own, could result in the calibration uncertainty being larger than the BMC.