



Scope of Accreditation to ISO 17025:2017 - ANSI/NCSL Z540.3 2006

RES CALIBRATION
 111 South I Street, Suite 1G
 Lompoc, California 93436 USA

Supplement to Certificate

Original Approval: December 05, 2014
Date of Issue: December 05, 2023
Date of Expiration: December 04, 2026

Certificate Number: AGS-US120514-1/7

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

I. Dimensional

Calibration Measurement Capabilities			Master Standards set (C0074)			Backup Master Standards set (C0037)		
Calibration Range	Max. Std. Deviation	Max. Calculated Uncertainty	Standard ID	Avg. Step Height (μm)	NIST Calculated Uncertainty (k = 2)	Standard ID	Avg. Step Height (μm)	NIST Calculated Uncertainty (k = 2)
200Å	12Å	25Å	200Å	0.02314	±0.00034 μm	200Å	0.0221	±0.0011 μm
500Å	12Å	25Å	500Å	0.05353	±0.00065 μm	500Å	0.05081	±0.00073 μm
1000Å	14Å	30Å	1000Å	0.09771	±0.00091 μm	1000Å	0.1041	±0.0012 μm
2000Å	14Å	30Å	5000Å	.4701	±0.0025 μm	5000Å	0.4817	±0.0025 μm
5000Å	15Å	40Å	10000Å	1.0114	±0.0052 μm	10000Å	0.9746	±0.0049 μm
10000Å	15Å	60Å	50000Å	5.047	±0.022 μm	50000Å	4.869	±0.055 μm
50000Å	30Å	230Å	100000Å	10.017	±0.028 μm	100000Å	9.35	±0.1 μm
100000Å	50Å	300Å						
200000Å	75Å	660Å						

1. This laboratory offers commercial calibration services.
2. "Best Uncertainty" is the smallest uncertainty of measurements 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.