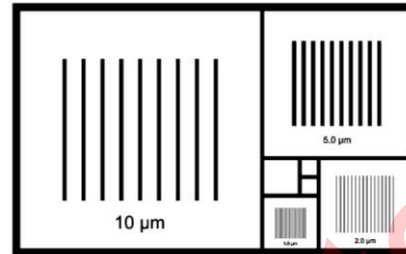
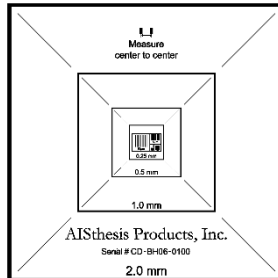




# AISthesis Products, Inc.

Advanced Imaging Products for Nanotechnology, Engineering and Life Sciences

## Certificate of Calibration for Pelcotec™ Critical Dimension Standard



Product Number: Pelcotec™ 703-1 CDMS-1C-Etched

Manufactured for and distributed by:

Product Description: 2.5x2.5mm Pelcotec™ 2mm-1μm Critical Dimension Magnification Standard



Product Serial Number: CD-BH06-1234

The accuracy of these products was determined by reference comparison to working standards traceable to the National Institute of Standards and Technology (NIST).

Line	Certified average pitch	Number of lines	Certified distance between first and last line (1σ)	Total expanded uncertainty (3σ)
2.0 mm	2.00 mm	2	2.00 mm ± 0.03%	± 0.09%
1.0 mm	1.00 mm	2	1.00 mm ± 0.03%	± 0.09%
0.5 mm	0.500 mm	2	0.500 mm ± 0.03%	± 0.09%
0.25 mm	0.250 mm	2	0.250 mm ± 0.03%	± 0.09%
10 μm	10.00 μm	9	79.97 μm ± 0.03%	± 0.09%
5.0 μm	5.00 μm	12	55.02 μm ± 0.03%	± 0.09%
2.0 μm	2.00 μm	16	30.02 μm ± 0.03%	± 0.09%
1.0 μm	1.00 μm	17	16.02 μm ± 0.03%	± 0.09%

The certified average pitch is derived from the stated certified length that was determined using 10 measurements (taken center-to-center) over the stated number of lines (i.e., length divided by the number of lines minus one). The total expanded uncertainty includes both Type A and Type B uncertainties corrected for sample size using an appropriate Student t-factor.

Equipment used:

Instrument	Model number	Serial #	NIST Certified CD	Resolution	Repeatability
FE-SEM	FEI Apreo2	9958357	CD-PG01-0211	0.9nm	0.03%

D.S. Finch  
Certified by

Signature

1/26/2024  
Date

This certificate shall not be reproduced without the permission of AISthesis Products, Inc.  
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