

Certificate of Calibration

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Customer: AAATest Company Two Test Drive Test City, CA 99923 Contact: Alania Poom Phone#: (949) 724-9474	Service Record #: SR-AA617228 Issue Date: 05/15/2024 Technician: Lyle McIlwain Job No: J-AA66547 Customer PO #: 123 Calibration Date: 05/15/2024 Next Cal Due: 05/15/2025
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Device Under Test	Manufacturer: Mitutoyo	Model: H-278	Serial #: B022563	
	Description: Digital Micrometer, 0-1"		ID #: 112365	
Device Conditions	As Received: Out of Tolerance	As Returned: In Tolerance	Adjusted?: Yes	Limited Use?: No
Environmental Conditions	Field Calibration?: Yes		Temperature: 22°C	Relative Humidity: 43%
Comments: None.				
Facility:		Area: None	Position: Test	
Tolerance: +/- 0.001"				

Sample Data Points

Description	Nominal	As Found	As Left	Lower Limit	Upper Limit	Accept. Limit** (±)	Uncertainty
	0.1000 in	0.1020 in *	0.1000 in	0.0990 in	0.1010 in	Same as tolerance	7.4e-005 in
	0.5000 in	0.5020 in *	0.5000 in	0.4990 in	0.5010 in	Same as tolerance	7.4e-005 in
	1.0000 in	1.0020 in *	1.000 in	0.9990 in	1.0010 in	Same as tolerance	7.4e-005 in

* Denotes out of tolerance measurement data.

** The acceptance limit denotes the guard band imposed on the lower and upper limits to ensure a probability of false accept (PFA) of 2% or less; if a PFA of 2% or less is not practical, a test uncertainty ratio (TUR) of 4:1 or greater is ensured.

Standards Used

Manufacturer	Model	Description	Next Cal Due	Traceable #
Fowler	53-684-038	Gage Block Set, Ceramic, Grade 0, 36 Piece	11/10/2024	T-0377
Procedure Used:		G-0002 Physical Dimensional		



Test/Calibration data, if applicable, is available upon request (fee required)

This calibration is traceable to the international system of units (SI), through a National Metrology Institute, such as NIST.

This calibration complies with the requirement of ANSI/NCSL Z540.3-2006 and ISO/IEC 17025:2017.

Pass/Fail information, that may have been included on this certificate if requested, is for your convenience and is an opinion and/or interpretation of the compliance/noncompliance of the results of the calibration measurements based on the specifications as stated in the referenced procedure (unless otherwise noted.) When a statement of compliance is issued, decisions are based upon the calibration measurement results falling within specified limits, without taking the uncertainty of the measurement into account. Ultimately the sole responsibility regarding the decision for compliance/noncompliance remains with the customer and should be based on the usage of the item and measurement uncertainty requirements of the end user's application.

The uncertainty is estimated using a coverage factor (k) of 2, providing a confidence level of approximately 95%.

No allowances have been made for the instability of the test device due to use, time, etc.: such allowances would be made by the customer as needed.

There are no special limitations of use imposed on the calibrated item, unless specified.

This report applies only to the item described and shall not be reproduced except in full, without the written approval of usCalibration.



5/15/24

Lyle McIlwain, Technician

Date

