

**CERTIFICATE OF
 CALIBRATION**



Certificate No. ACT-1272

CERTIFICATION NUMBER	CP134-00111-840	IDENTIFICATION	MC-013A
FOR	Sample Manufacturing 3121 Medalist Drive Oshkosh, WI 54902	SERIAL NUMBER	111
TEST INSTRUMENT	Tensile Tester	PURCHASE ORDER #	
MAKE	Starrett	PROCEDURES FOLLOWED	MC-013A rev. 2
MODEL	FMS1000		
RANGE	(0 to 1000N) (0 to 30) inch		
CUSTOMER LOCATION	Location1 Location2	STANDARDS USED	
CONDITION RECEIVED	In Tolerance	INSTRUMENT	SERIAL NUMBER
CONDITION RETURNED	In Tolerance	FVB-059	N/A
CALIBRATED BY	Andrew Gallman	FVB-073	N/A
REVIEWED/ISSUED	D.P. 07/29/2025	FVB-119	N/A
CALIBRATION LOCATION	FVM	FVB-184C	N/A
ENVIRONMENT	69.0°F, 31.0%RH, 29.01inHg	FVS-019G-BLUE	As Listed
CALIBRATION DATE	05/14/2025		
RECALIBRATION DUE	05/14/2026		
		TRACE NUMBER	NEXT CAL
		C0304-57915-896	10/31/2025
		CP002-53635-735	01/31/2026
		CP164-20137-656	06/30/2026
		CP133-53242-881	05/31/2026
		CP120-46918-681	10/31/2025

CALIBRATION RESULTS

* DENOTES "OUT OF TOLERANCE"

FEATURE	NOMINAL	LOWER LIMIT	UPPER LIMIT	AS FOUND	AS LEFT	UNCERTAINTY
Compression	(1b)	(1b)	(1b)	(1b)	(1b)	(1b)
Run 1	0.00	-0.23	0.23	0.00	0.00	3.2E-2
	2.00	1.77	2.23	2.00	2.00	3.2E-2
	20.00	19.77	20.23	20.00	20.00	3.2E-2
	50.00	49.77	50.23	50.00	50.00	3.3E-2
	100.00	99.77	100.23	100.00	100.00	1.5E-1
	150.00	149.77	150.23	150.00	150.00	1.6E-1
	200.00	199.77	200.23	200.00	200.00	1.8E-1
Run 2	0.00	-0.23	0.23	0.00	0.00	3.2E-2
	2.00	1.77	2.23	2.00	2.00	3.2E-2
	20.00	19.77	20.23	20.00	20.00	3.2E-2
	50.00	49.77	50.23	50.00	50.00	3.3E-2
	100.00	99.77	100.23	100.00	100.00	1.5E-1
	150.00	149.77	150.23	150.00	150.00	1.6E-1
	200.00	199.77	200.23	200.00	200.00	1.8E-1
Tension	(1b)	(1b)	(1b)	(1b)	(1b)	(1b)
Run 1	0.00	-0.23	0.23	0.00	0.00	3.2E-2
	2.00	1.77	2.23	2.00	2.00	3.2E-2
	20.00	19.77	20.23	20.00	20.00	3.2E-2
	50.00	49.77	50.23	50.00	50.00	3.3E-2
	100.00	99.77	100.23	100.00	100.00	1.5E-1
	150.00	149.77	150.23	150.00	150.00	1.6E-1
	200.00	199.77	200.23	200.00	200.00	1.8E-1
	200.00	199.77	200.23	200.00	200.00	1.8E-1

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FEATURE	NOMINAL	LOWER LIMIT	UPPER LIMIT	AS FOUND	AS LEFT	UNCERTAINTY	
Run 2	0.00	-0.23	0.23	0.00	0.00	3.2E-2	
	2.00	1.77	2.23	2.00	2.00	3.2E-2	
	20.00	19.77	20.23	20.00	20.00	3.2E-2	
	50.00	49.77	50.23	50.00	50.00	3.3E-2	
	100.00	99.77	100.23	100.00	100.00	1.5E-1	
	150.00	149.77	150.23	150.00	150.00	1.6E-1	
	200.00	199.77	200.23	200.00	200.00	1.8E-1	
Displacement	(in)	(in)	(in)	(in)	(in)	(in)	
Run 1	3.000	2.999	3.001	3.000	3.000	6.0E-4	
	7.500	7.499	7.501	7.500	7.500	6.0E-4	
	15.000	14.997	15.003	15.000	15.000	6.0E-4	
	22.500	22.496	22.504	22.500	22.500	6.0E-4	
	30.000	29.994	30.006	30.000	30.000	6.0E-4	
Run 2	3.000	2.999	3.001	3.000	3.000	6.0E-4	
	7.500	7.499	7.501	7.500	7.500	6.0E-4	
	15.000	14.997	15.003	15.000	15.000	6.0E-4	
	22.500	22.496	22.504	22.500	22.500	6.0E-4	
Speed	(in/min)	(in/min)	(in/min)	(in/min)	(in/min)	(in/min)	
	Run 1	5.000	4.990	5.010	5.000	5.000	1.7E-2
	Run 2	5.000	4.990	5.010	5.000	5.000	1.7E-2
	Run 1	25.000	24.950	25.050	25.000	25.000	1.7E-2
	Run 2	25.000	24.950	25.050	25.000	25.000	1.7E-2
Run 1	50.000	49.900	50.100	50.000	50.000	1.7E-2	
	Run 2	50.000	49.900	50.100	50.000	50.000	1.7E-2

COMMENTS

Example certificate, actual results and uncertainties will be reported at the time of calibration.
 Nominal and limits may vary based on actual make/model.

- This certificate shall not be altered in any form or reproduced, except in full, without prior written approval from originating lab. These results relate only to the item(s) calibrated. Form Revision 10: 06/04/2024
- Total expanded measurement uncertainties expressed are based on a confidence level of 95%; coverage factor of (k=2). The statement of compliance in this certificate was issued without taking the uncertainty of measurement into consideration. The customer shall assess the results and uncertainty when determining if the results meet their needs. (This is considered "shared responsibility.") Uncertainties expressed in nominal units.
- The calibrations within the certificate/report are traceable through NIST or another National Metrology Institute to the International System of Units (SI). Calibration was completed in accordance with ISO/IEC 17025:2017, ANSI/NCSL Z540-1-1994 and ANSI/NCSL Z540.3-2006. Other standards listed upon request.