

**THIS IS TO CERTIFY THAT AFFRI INC. HAS CALIBRATED THE FOLLOWING
SPEED FOR MATERIAL TESTING MACHINES IN ACCORDANCE WITH ASTM-E2658-15(2023).**

CUSTOMER

COMPANY: Labsurface
ADDRESS: 2250 Rue Louis-Bleriot
CITY/PROVINCE: Mascouche, Quebec J7K 3C1

CALIBRATION INFORMATION

PURCHASE ORDER NUMBER: NG-553773-1
CERTIFICATE NUMBER: Labsurface_TMU-190485_VTS230128-Speed_E2658_030825
CERTIFICATE ISSUED: March 8, 2025
CALIBRATION DATE: March 8, 2025
REQUESTED DUE DATE: March 8, 2026
SYSTEM LOCATION: R&D Lab
MANUFACTURER: Nextgen
MODEL: EML504C
SERIAL NUMBER: TMU-190485/VTS230128
ASSET NUMBER: Speed
INDICATOR RESOLUTION: 0.01 in/min
TEMPERATURE / RELATIVE HUMIDITY: 21.48°C/29.65%
CALIBRATION TECHNICIAN: Saverio Amerato

CALIBRATION IS VALID FOR THE SCALE(S), ITEMS AND RESULTS SHOWN AND HAS BEEN FOUND TO BE WITHIN TOLERANCE UNLESS OTHERWISE NOTED.

STANDARDS USED

FILE	SERIAL #	MFG	CAL DATE	DUE DATE	CERT BY	CERT #	CAPACITY	UNC
TH 003	S2450843/S2310657	Vaisala	02/02/24	02/02/26	Transcat	33-Q3F0N-20-1	Deg/%RH	0.5/0.14 Deg/%RH
DIM 006	0008872	Mitutoyo	10/03/24	10/03/25	Affri Inc.	AffriUS_0008872-DIM006_ASMEB89_031024	12 in	0.0014 in
Time 001	TIME 001	BizoeRade	10/03/24	10/03/25	AFFRI INC	AffriUS_TIME_001_NIST960_031024	s	0.11 s

TRACEABILITY, UNCERTAINTY AND DECISION RULE STATEMENTS

The expanded uncertainties shown above use a confidence level of 95% and a coverage factor of $k = 2$. Expanded uncertainties are valid from 18°C to 28°C. ALL REFERENCE STANDARDS USED FOR VERIFICATION ARE TRACEABLE TO NIST OR ACCREDIA. Services comply with PO requirements. Affri uses a binary decision rule of pass or fail where tolerance limit equals acceptance limits without considering uncertainty. Uncertainty and measured results are provided for the user to consider their own risk.

COMMENTS

Preventative maintenance was performed.

Saverio Amerato
AFFRI Inc
CALIBRATED BY

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CUSTOMER

COMPANY: Labsurface

CALIBRATION INFORMATION

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 CALIBRATION DATE: March 8, 2025
 REQUESTED DUE DATE: March 8, 2026
 MODEL: EML504C
 SERIAL NUMBER: TMU-190485/VTS230128

AS FOUND:

REF STD USED	DUT SPEED SETTING	DUT RESOLUTION	ACTUAL SPEED RUN #1	DIRECTION: DUT ERROR RUN #1	Compression DUT ERROR RUN #1	ASTM CLASS
	(in/min)	(in/min)	(in/min)	(in/min)	(%RD)	
TH 003 / DIM 006	0.00	0.01	0.0000	0.0000		A
	0.03	0.01	0.0299	0.0001	0.33%	A
	0.05	0.01	0.0498	0.0002	0.40%	A
	0.20	0.01	0.1996	0.0004	0.20%	A
	1.00	0.01	0.9994	0.0006	0.06%	A

Resolution	ASTM CLASS
(in/min)	
0.01	A

Overall ASTM Class
B

AS LEFT:

REF STD USED	DUT SPEED SETTING	DUT RESOLUTION	ACTUAL SPEED RUN #1	ACTUAL SPEED RUN #2	DUT ERROR RUN #1	DUT ERROR RUN #2	DUT ERROR RUN #1	DUT ERROR RUN #2	DUT REPEAT.	STD. UNCER. DUE TO REPEAT.	STD. UNCER. DUE TO CAL LAB	DIRECTION: MEASURE. UNCERT. (K=2)	Compression ASTM CLASS
	(in/min)	(in/min)	(in/min)	(in/min)	(in/min)	(in/min)	(%RD)	(%RD)	(%RD)	(%RD)	(%RD)	(%RD)	
TH 003 / DIM 006	0.00	0.01	0.0000	0.0000	0.0000	0.0000							
	0.03	0.01	0.0299	0.0298	0.0001	0.0002	0.33%	0.67%	0.33%	0.32%	0.13%	19.26%	B
	0.05	0.01	0.0498	0.0496	0.0002	0.0004	0.40%	0.80%	0.40%	0.19%	0.13%	11.56%	B
	0.20	0.01	0.1996	0.1996	0.0004	0.0004	0.20%	0.20%	0.00%	0.05%	0.13%	2.90%	A
	1.00	0.01	0.9994	0.9996	0.0006	0.0004	0.06%	0.04%	0.02%	0.01%	0.13%	0.63%	A

COMMENTS

Preventative maintenance was performed.

CUSTOMER

COMPANY:

Labsurface

CALIBRATION INFORMATION

CERTIFICATE NUMBER:

Labsurface_TMU-190485_VTS230128-Speed_E2658_030825

CERTIFICATE ISSUED:

March 8, 2025

CALIBRATION DATE:

March 8, 2025

REQUESTED DUE DATE:

March 8, 2026

MODEL:

EML504C

SERIAL NUMBER:

TMU-190485/VTS230128

AS FOUND:

REF STD USED	DUT SPEED SETTING	DUT RESOLUTION	ACTUAL SPEED RUN #1	DUT ERROR RUN #1	DUT ERROR RUN #1	ASTM CLASS
	(in/min)	(in/min)	(in/min)	(in/min)	(%RD)	
Time 001 / DIM 006	0.00	0.01	0.0000	0.0000		A
	0.03	0.01	0.0298	0.0002	0.67%	B
	0.05	0.01	0.0500	0.0000	0.00%	A
	0.20	0.01	0.1985	0.0015	0.75%	B
	1.00	0.01	0.9965	0.0035	0.35%	A

Resolution	ASTM CLASS
(in/min)	
0.01	A

Overall ASTM Class
B

AS LEFT:

REF STD USED	DUT SPEED SETTING	DUT RESOLUTION	ACTUAL SPEED RUN #1	ACTUAL SPEED RUN #2	DUT ERROR RUN #1	DUT ERROR RUN #2	DUT ERROR RUN #1	DUT ERROR RUN #2	DUT REPEAT.	STD. UNCER. DUE TO REPEAT.	STD. UNCER. DUE TO CAL LAB	DIRECTION: MEASURE. UNCERT. (K=2)	Tension
	(in/min)	(in/min)	(in/min)	(in/min)	(in/min)	(in/min)	(%RD)	(%RD)	(%RD)	(%RD)	(%RD)	(%RD)	ASTM CLASS
Time 001 / DIM 006	0.00	0.01	0.00	0.00	0.00	0.00							
	0.03	0.01	0.0298	0.0298	0.0002	0.0002	0.67%	0.67%	0.00%	0.61%	0.13%	19.29%	B
	0.05	0.01	0.0500	0.0500	0.0000	0.0000	0.00%	0.00%	0.00%	0.37%	0.13%	11.57%	A
	0.20	0.01	0.1985	0.1988	0.0015	0.0012	0.75%	0.60%	0.15%	0.09%	0.13%	2.90%	B
	1.00	0.01	0.9965	0.9970	0.0035	0.0030	0.35%	0.30%	0.05%	0.02%	0.13%	0.63%	A

COMMENTS

Preventative maintenance was performed.