Gibitre Instruments S.r.l.
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CER_FLA_001	Rev: 02	IN

Calibration Report n° FLAXXXXXX_65343

Issued 12/03/2026

Customer

Name	C**USTOMER**
Address	A**DDRESS**
	A**DDRESS**
Country	C**OUNTRY**

Order

Number	26/01267

Instrument

Type	FLAME TESTER
Model	FLAMMABILITY CHECK
Producer	GIBITRE INSTRUMENTS SRL
Serial Number	FLAX**XXXXX**

Calibration

Date of the measures	**26/02/2026**	
Technician	**Alan Arsuffi**	Habilitation for Calibration

Reference Standard

The calibration is made in accordance to the requirements of the following standards:

ASTM D 5207: Confirmation of 20 and 125 mm Test Flames for Small-Scale Burning Tests on Plastic Materials

UL 94: Tests for flammability of plastic materials for parts in devices and appliances

ASTM D 5025: Laboratory Burner Used for Small-Scale Burning Tests on Plastic Materials

The measurement uncertainties stated in this document have been determined according to the ISO/IEC Guide 98 and to EA-4/02. Usually they have been estimated as expanded uncertainty obtained multiplying the standard uncertainty by the coverage factor k corresponding to a confidence level of about 95%. Normally, this factor k is 2.

Calibration made by:

Calibration Report approved by:

Ivan Locatelli

The measurement results reported in this Calibration Report were obtained following the procedures given in the following pages, where the reference standards or instruments are indicated which garantee the traceability chain of the laboratory, and the related calibration certificates in the course of validity are indicated as well. They relate only to the calibrated item and they are valid for the time and conditions of calibration, unless otherwise specified.

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Reference Instruments	Producer	Serial N.	Gibitre Code	Certificate N.	Calibration Laboratory	Issue Date	Due Date	Uncertainty	Unit
Digital thermometer with Pt100 sensor	Delta Ohm	12036501-13023	TER-12036501-13023	LAT 051 C119206D40	TRESCAL	15/05/19	15/05/2026	1,90	°C
Chronometer	RS COMPONENTS	GBT.CN.01/13	CRO02 [0-60 s]	LAT 056 23-0199_2023	GAMMA MISURE	09/02/23	09/02/2028	0,10	s
Digital Caliper	Mitutoyo	1019218	CLB02	LAT 051 CT-CC-0227-2022	TRESCAL	23/05/22	23/05/2027	0,01	mm
Optical Coordinate Measuring Machine	OGP HOMMEL Italia srl	SKL2252499	MDI02 [Ø 0,5-5 mm]	MDI02_21172	GIBITRE INSTRUMENTS	26/02/25	26/02/2028	0,00	mm
Chronometer + Calibrator	Gibitre Instruments srl	C5-CH-1	C5-GB3-CAL-1 + C5-CH-1	CAL105_32048	GIBITRE INSTRUMENTS	02/09/25	02/09/2026	0,16	s
Thermocouple + Calibrator	Gibitre Instruments srl	C5-T-TC1	C5-GB3-CAL-1 + C5-T-TC1	CAL105_32048	GIBITRE INSTRUMENTS	02/09/25	02/09/2026	3,66	*C
Digital Calliper	Mitutoyo	A16222743	C5-CL-200	CAL105_32048	GIBITRE INSTRUMENTS	02/09/25	02/09/2026	0,01	mm

ENVIRONMENTAL CONDITIONS

Room Temperature	(23 ± 2) °C
Relative Humidity	(50 ± 10) %

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Calibration of: **20-mm Test Flame - time for the temperaturet to rise from 100 to 700°C**

Procedure: The calibration is performed using a thermocouple with a 1.75g copper tip. The burner must be set with flame with 20 mm height and blue cone. The flame must stabilize 5 minutes before the start of the calibration test. The thermal probe must be placed over the flame at 10 mm distance from the top of the burner. The timer must be started when the temperature is (100 +/- 2) °C and must be stopped when the temperature is (700 +/- 3)°C. The time required to reach the temperature must be (44 +/-2) seconds

Reference Standard: **ASTM D 5207**

Reference Instruments:

C5-GB3-CAL-1 + C5-T-TC1	Uncertanty:	3,6575	*C	Deviation	1,00	*C
C5-GB3-CAL-1 + C5-CH-1	Uncertanty:	0,1618	s	Deviation	0,00	s

Set Value s	Minimum Allowed s	Maximum Allowed s	Measure 1 s	Measure 2 s	Measure 3 s	Mean s	Accuracy s	Uncertanty U_ext_95% s	Outcome
44	42	46	45,7	45,4	45,9	45,67	1,67	0,333	ok

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Calibration of: **Time mesuring device of the system**

Sensor Type: **Timer**
Resolution: 1 s

Procedure: After the start of the test, the time reading of the instrument is compared after 60 seconds with the reading of the reference chronometer (see page 2).

Reference Standard: **UL 94**

Reference Instruments:
C5-GB3-CAL-1 + C5-CH-1 Uncertanty: 0,1618 s Deviation 0,00 s

Instrument Reading s	Minimum allowed s	Mazimum Allowed s	Reference Reading 1 s	Reference Reading 2 s	Reference Reading 3 s	Mean s	Error s	Uncertanty U_ext_95% s	Outcome
60	59	61	60,11	60,24	59,96	60,10	0,10	0,62	ok

Calibration of: **Templates for sample positioning**

Procedure: The templates are measured using the reference calliper

Reference Standard: **UL 94**

Reference Instruments:
C5-CL-200 Uncertanty: 0,0148 mm Deviation 0,01 mm

Expected Size mm	Minimum Allowed mm	Maximum Allowed mm	Measure 1 mm	Measure 2 mm	Measure 3 mm	Mean mm	Accuracy mm	Uncertanty U_ext_95% mm	Outcome
10	9	11	10,54	10,56	10,56	10,55	0,55	0,020	ok
12	11	13	12,96	12,98	12,99	12,98	0,98	0,023	ok

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Verification of instrument safety devices

√	Functional verification of Bunsen safety thermocopy

√	Check that gas supply pipe is not expired

√	Final verification that the instrument is functioning properly with safety devices active

Disclaimer

The outcome of verifications regarding the proper functioning of safety devices on the instrument refers to the time when the verification is performed.
Periodic verification of the maintenance of the safety features of the instrument between successive maintenance services is the responsibility of the customer.