

ARE YOU SURE?

BETTER BE SURE WITH EUROPEAN LAB SERVICES



EUROPEAN LAB SERVICES

CALIBRATION AND TESTING SERVICES FOR INDUSTRIAL AND MEDICAL LABORATORIES

BETTER BE SURE WITH EUROPEAN LAB SERVICES

European Lab Services delivers calibration and testing services for industrial and medical laboratories. With the expertise and flexibility of the ELS calibration engineers we offer carefree confidence in your instruments and assure high precision measurement and traceability.

Our services:

- In-lab and on-site **temperature calibration** of resistance thermometers, temperature measurement chains, liquid in glass thermometers and temperature loggers according to ISO 17025.
- In-lab and on-site **mass calibration** of laboratory balances according to ISO 17025
- In-lab and on-site **electrical resistance calibration** according to ISO 17025
- On-site **verification of thermostatic baths, ovens and refrigerators** according to ISO 17025
- On-site **verification of lab centrifuges** according to ISO 17025
- On-Site **verification of petroleum analyzers** according to ISO 17025
- **Total care & maintenance service** for laboratory instruments and analyzers

European Lab Services has offices in Belgium (Temse), The Netherlands (Rotterdam) and France (Caen), this allows us to intervene quickly to your calibration or service needs.

Having ELS as your service partner results in high performance, international recognition, less worrying and increasing credibility.





Temperature calibration
of thermometers



Verification of lab centrifuges



Mass calibration of laboratory
balances



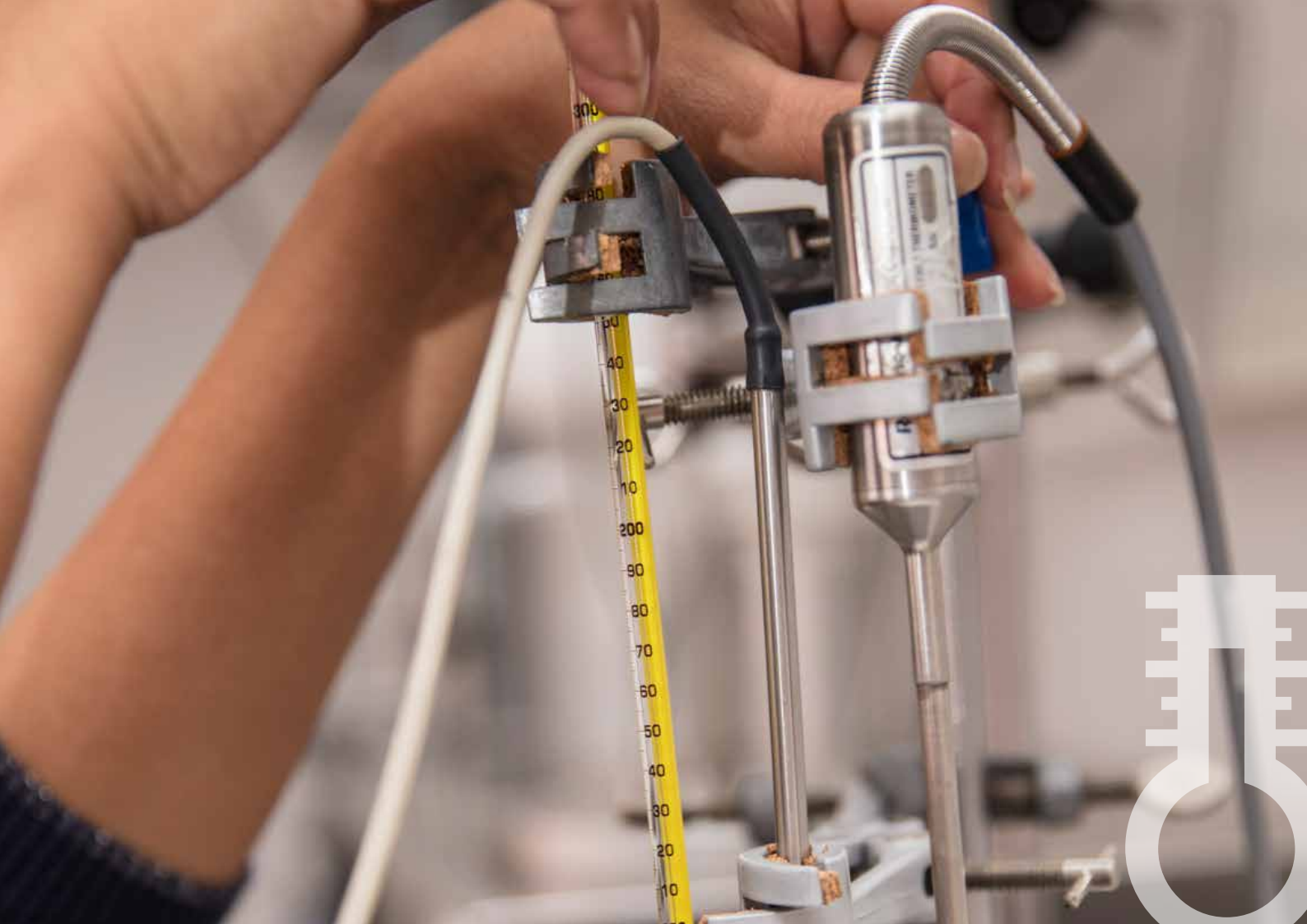
Verification of petroleum
analyzers



Verification of temperature
controlled instruments



Total care &
maintenance service



CALIBRATION OF THERMOMETERS ACCORDING TO ISO 17025



European Lab Services provides temperature calibration for thermometers according to ISO 17025 requirements. These calibrations can be performed in the ELS accredited calibration laboratory or on-site: in the customers' lab, warehouse or production facility. The device under test is compared to a high precision reference thermometer in a validated homogeneous environment.

With the calibration you will receive a calibration certificate stating the performance at the calibrated temperature points, difference and uncertainty.



TEMPERATURE CALIBRATION	Range	Best Uncertainty
Temperature measurement chains (Temp. Probe with display device)	- 60 ... 660 °C	0,009 °C
Pt100 probes	- 60 ... 660 °C	0,016 °C
Liquid in glass thermometers	- 40 ... 275 °C	0,01 °C
Temperature loggers specs	0 ... 70°C	0,1 °C
Dry block calibrators	- 35 ... 650 °C	0,1°C
RESISTANCE CALIBRATION	Range	Best Uncertainty
Electrical resistance measurement	0,1 Ω ... 600 Ω	0,00081 Ω

(Full scope on www.eurolabservices.eu)



CALIBRATION OF LABORATORY BALANCES ACCORDING TO ISO 17025



European Lab Services delivers in-lab and on-site mass calibration for analytical and precision laboratory balances up to 17 kg.

All calibrations are performed by using standard weights of classes E1 and F1 in order to guarantee international recognition. ELS calibrates all types and brands of lab balances, regardless of application or industry.

An ISO 17025 calibration certificate is delivered with information on linearity, repeatability and load positions on the balance.



CALIBRATION OF LABORATORY BALANCES	Range	Uncertainty
Laboratory balances with display (in-lab)	10 g ... 8 kg	0,000006 g ... 0,00085 g
	1 mg ... 17 kg	0,000006 g ... 0,0181 g
Laboratory balances with display (on-site)	10 g ... 8 kg	0,000006 g ... 0,00085 g
	1 mg ... 17 kg	0,000006 g ... 0,0181 g

(Full scope on www.eurolabservices.eu)



Pilot ONE®

Tmin -35°C | Tmax 90°C | 01 95°C

huber 21.04.2017 08:31 Pilot ONE

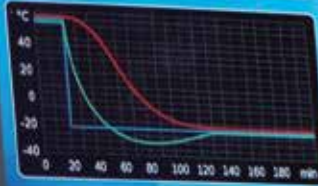
T Preinf -20.00 °C

T Intern -22.17 °C

T Solenoid -20.00 °C

1500 rpm

Level



Programmschritt 7/105 erfolgreich. Solenoid erreicht.

Favoriten Menü Start

huber

petite fleur



VERIFICATION OF TEMPERATURE-CONTROLLED INSTRUMENTS



Most labs contain various temperature-regulated instruments such as: water baths, thermostatic circulators, ovens, refrigerators and freezers, incubators, climate chambers, etc.

European Lab Services has the capabilities to verify these instruments on-site in a range from -40°C up to 200°C. A detailed report of accuracy (difference) and stability is delivered in the test certificate.

INSTRUMENT VERIFICATION	Range	Test Method
Water baths, bath circulators, calibration baths, etc.	- 80 °C ... 300 °C	By comparison with reference thermometer
Ovens, refrigerators, freezers, climatic chambers, etc.	- 80 °C ... 1000 °C	By comparison with reference thermometer

(Full scope on www.eurolabservices.eu)



VERIFICATION OF LABORATORY CENTRIFUGES ACCORDING TO ISO 17025



European Lab Services is accredited for the verification of laboratory centrifuges for research and medical applications according to internal procedure TP-ELS-105.

Verification according to WHO guideline and ISO 17025 consisting of:

PART 1: MAINTENANCE

- Exterior cleaning of the instrument (e.g. cooling vents)
- Safety check (e.g. over-temperature protection)
- Factory settings check and adjustment according to manufacturer guidelines
- Rotor check
- Sealing check

PART 2: VERIFICATION

- Verification of temperature control at 1 point, programming offsets if applicable
- Verification of rotation speed at 3 setpoints
- Verification of built-in timer
- ISO 17025 certification



VERIFICATION OF LABORATORY CENTRIFUGES	Parameter	Range
Verification parameters and capabilities	Temperature (Measured with temp. sensor)	- 40 °C ... 200 °C
	Time	0,01 ... 1440 minutes
	Revolutions	20 ... 9000 r/minute

(Full scope on www.eurolabservices.eu)

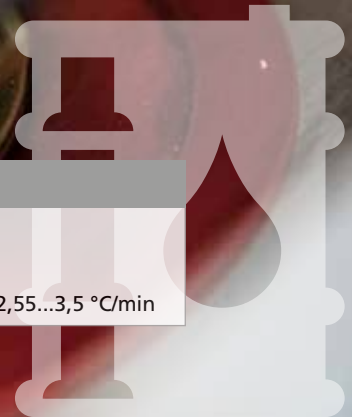
**Analyser example**

Flash Point Analyser ASTM D93

Allowed limits

Temperature measurement
Atmospheric pressure
Stirrer rotation speed
Warm-up speed

5 °C ... 370 °C ($\pm 0,5$ °C)
950 ... 1050 hPa (± 5 hPa)
90-120 rpm - 240-260 rpm
5...6 °C/min - 1...1,6 °C/min - 2,55...3,5 °C/min



VERIFICATION OF PETROLEUM ANALYZERS ACCORDING TO ISO 17025



ELS is the only company worldwide offering on-site performance evaluation of petroleum analyzers in laboratories for crude, fuels and bio diesel, lubricating oil and grease, asphalt, waxes and bitumen.

The performance of your analyzers is evaluated based on the strict requirements of the corresponding standard test method of the instrument. Common verification is performed on analyzers for Flash Point (ASTM D93), Atmospheric Distillation (ASTM D86), Cold Filter Plugging Point (EN 116) and various others.



ELS is accredited (BELAC 327-TEST) for the following parameters:

Temperature: (measured with temperature sensor)	- 80 °C to 1000 °C
Temperature: (measured with reference resistor)	- 200 °C to 660 °C
Revolutions:	20 to 9000 r/minutes
Volume:	100 µl to 500 ml
Flow:	20 to 60000 ml/minute
Time:	0,01 to 1440 minutes
Pressure:	-1 to 60 bar
Steam flow:	800 to 1200 ml/s
Length:	5-25 mm

European Lab Services has written over 120 verification procedures and is the number one qualified and skilled partner for performance evaluation testing.





TOTAL CARE & MAINTENANCE SERVICE



ELS is the only company worldwide offering on-site performance evaluation of petroleum analyzers in laboratories for when you entrust ELS with your analyzer management, you experience the countless advantages of carefree operation.

European Lab Services provides:

- Planned periodic calibration and verification
- Proactive maintenance and repair
- Quick action in case of failure due to local offices
- Online portal for service status
- Certificate management
- Total cost of ownership reports

By providing customer based Service Level Agreements, ELS is able to deliver exactly the right support for your lab in order to work with carefree confidence in your equipment.

www.eurolabservices.eu



European Lab Services

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