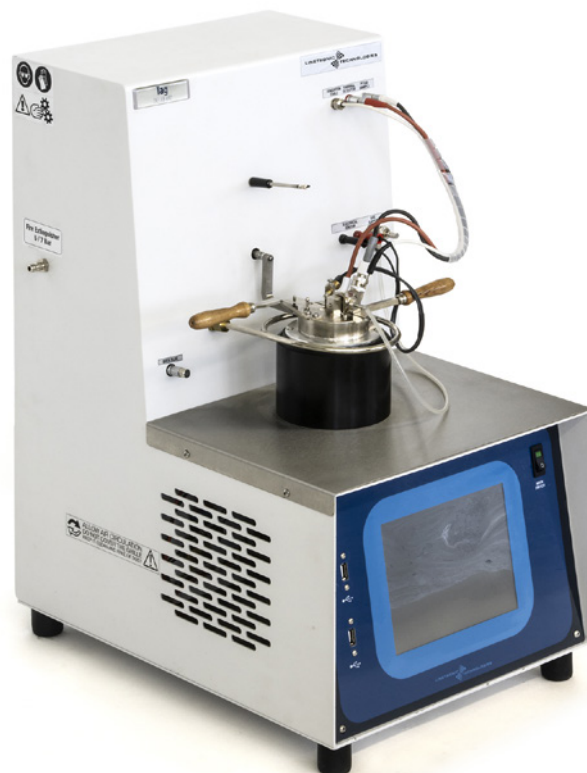




## OilLab 690 Tag



ASTM D56  
ASTM D3278  
ASTM D3934  
ASTM D3941  
IP 304  
IP 491  
IP 492  
ISO 1516  
ISO 1523  
ISO 3679

### Subject

Flash point on petroleum products having a flash point between ambient temperature and +93°C. Suitable for flash point detection on different substances and (NO) waste materials, solvents...

### Measuring Tag Principle

The sample is warmed up according to the methods. When the sample reaches the selected test temperature, the shutter is opened and the ignition system introduces itself automatically. If the flash point is reached, the detection is done by an ionisation detector. If not, the shutter closes again and the sample continues to warm up until the next test temperature.

### Measuring Tag Devices

- Measurement of the Flash Point detected by an ionisation detector
- Testing unit equipped with two ignition systems
- Electrical system or flame exposure device
- Built-in barometric sensor with automatic barometric correction of results executed by the software

### Measuring Temperature Probe

- Platinum resistance PT100 class A

### Measuring Parameters

- Temperatures: in °C
- Measuring range: -50°C ... +100°C
- Testing range OilLab 690/SA: +9°C ... +93°C as per test methods
- Testing range OilLab 690/Plus: +9°C ... +93°C with possibility to extend the range depending on cryostat connected
- Resolution: 0.06 °C
- Accuracy: ± 0.1 °C
- Repeatability / Reproducibility: as per standards methods or better

### Software Features

- All analytical parameters recorded
- Customizable analysis parameters and methods
- Customizable results report
- Printable graphs and results

The software includes:

#### Analysis Menu

- Standard method as per ASTM / IP / ISO / EN / DIN... norms of reference
- Unknown sample
- Audible alarm and displayed messages at the end of the analysis and in case of errors and/or malfunction

#### Diagnostic Menu

- Direct access to all analog, digital, inputs and outputs
  - Selectable value displaying: °C / Volt
- #### Calibration Menu
- Automatic calibration of each temperature probe
  - Last calibration date referred to each single probe displayed and relative data printable
  - Display of calibration diagram
  - Insertion of offset values
  - Standard and advanced calibration modes
- #### Data Utilities
- Fields for introduction of operator and product name
  - Archive viewer for files recall
  - All analysis stored in Excel® compatible format
  - LIMS compatible

### Integrated Touch Screen Panel PC

- TFT/LCD 8"
- Resolution 1024 x 768, 16.2 M colours
- 2 USB ports for connection to an external printer and/or external PC
- Storage capacity for more than 60'000 analysis



## OilLab 690 Tag



### Test Cup

- The cup is made of chromium plated brass provided with high temperature resistant handle
- Sample level mark
- External rim diameter: 63 mm
- Internal diameter: 53.8 mm
- Cup height: 54 mm
- Thickness: 0.6 mm

### Heating

- Electrical heater
- Equipped with over temperature cut-out

### Cooling System

- OilLab 690/SA: integrated high-tech Peltier cooling system
- OilLab 690/Plus: integrated high-tech Peltier cooling system and joint for external cryostat connection

### Ignition system

- Gas and/or electric lighter

### Shutter

- Automatic mechanism opening the shutter conform to the methods

### Electrical Supply

- 220V  $\pm$  15% / 50 to 60 Hz
- 115V  $\pm$  15% / 60 Hz



Test Cup

### Cord Cable:

- 3 conductors flexible cable with schuko plug

### Ambient Temperature

- Max 35°C
- H.R. 80%

### Dimensions

- width 48 cm
- depth 37 cm
- height 61 cm

### Weight

- 32 Kg

### Spare Parts

- LAB-690/05-13: heater
- LAB-690/05-16: PT100 bath
- LAB-690/06-21: gas valve
- LAB-690/07-01: electrical ignitor
- LAB-690/07-03: micro switch
- LAB-690/07-04: handle
- LAB-690/07-05: gas ignitor
- LAB-690/08-12: PT100 product
- LAB-690/08-13: detection / ionisation cable
- LAB-690/09-04: gas reducer
- LAB-690/09-05: calibrated brass crucible
- LAB-690/09-06: calibrated brass crucible complete with movement
- LAB-690/09-07: cover cup movement only
- LAB-690/10-04: PCB fuses, box of 10
- LAB-690/10-05: main electronic board
- LAB-690/11-01: silicon tubing, 1 meter
- LAB-690/12-01: voltage transformer for ignitor
- LAB-690/20-01: support PT100 Teflon

### Calibration Tools

- OilLab 80: calibration decade box – PT100 simulator
- OilLab 81: set of connectors and cables for cold range

### Optional

- LT/CB-40800/M: cryostatic bath, lines for cooling down bath at -10°C, -20°C or -30°C depending on option selected