



OilLab 650 - OilLab 650 Plus Abel



EN 924
EN 13736
IP 170
IP 491
IP 492
ISO 1516
ISO 3679
ISO 13736

Subject

Flash point on petroleum products having a flash point between -18°C and 71°C (kerosene and solvents). Suitable for flash point detection on different substances and waste materials, solvents...

Measuring Abel 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 Abel Devices

- Measurement of the Flash Point detected by an ionisation detector
- Testing unit equipped with two ignition systems
- Electrical system or flame exposure device

Measuring Temperature Probe

- Platinum resistance PT100 class A
- Temperatures: in °C
- Measuring range: -50°C ... +120°C
- 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
- Warning if results obtained is out of specification

The software includes:

Analysis Menu

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

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

Test Cup

- The cup is made of brass provided with high temperature resistant handle
- Sample level mark

Heating

- Electrical heater
- Equipped with over temperature cut-out.

Cooling System

- Liquid refrigerant controlled by internal solenoid valve (OilLab 650)
- Peltier elements granting a temperature to -10°C (OilLab 650 Plus)



Automatic Analysers: OilLab Range

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Safety Features:

- Gas valve for closing the gas supply (max 30 mBar), at the end of the test
- Overheating protection with auto shut off during the test
- Auto fire detection by means of thermal fuse with acoustic alarm

Stirrer

- An electric motor drives a flexible transmission coil allowing the stirring of the product

Shutter

- Automatic mechanism opening the shutter conform to the methods

Accessories

External Cryostat:

- LT-900/35/3, single stage, up to -40°C
- LT-900/80/3, double stage, up to -80°C

Electrical Supply

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

Cord Cable:

- 3 conductors flexible cable with schuko plug

Ambient Temperature

- Max 35°C
- H.R. 80%

Dimensions

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

Weight

- 27 Kg

Spare Parts

- LAB-650/05-13: heater
- LAB-650/05-16: PT100 bath
- LAB-650/06-11: cooling valve
- LAB-650/06-12: insulated tube for connection to external cryostat
- LAB-650/06-21: gas valve
- LAB-650/07-01: electrical ignitor
- LAB-650/07-03: micro switch
- LAB-650/07-04: handle
- LAB-650/07-05: gas ignitor
- LAB-650/08-12: PT100 product
- LAB-650/08-13: detection / ionisation cable
- LAB-650/09-04: gas reducer
- LAB-650/09-05: calibrated brass crucible
- LAB-650/09-06: calibrated brass crucible complete with movement
- LAB-650/09-07: cover cup movement only
- LAB-650/10-04: PCB fuses, box of 10
- LAB-650/10-05: main electronic board
- LAB-650/11-01: silicon tubing, 1 meter
- LAB-650/11-02: stirrer / flexible
- LAB-650/12-01: voltage transformer for ignitor
- LAB-650/20-01: support PT100 Teflon

Calibration Tools

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

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