NAB 440

FLASH POINT TESTER ABEL CLOSED-CUP METHOD



STANDARDS

ISO 13736, IP 170, NF M 07 011 and related methods.

SCOPE

These test methods cover procedures for determination of the manual and automated closed-cup flash point of combustible liquids having flash points between -30°C to 75°C . However, the precision given for this method is only valid for flash points in the range -8.5°C to 75.0°C .



/ NORMALAB

NAB 440 is an ABEL flash point tester developed by Normalab. Normalab has been designing and manufacturing petroleum testing instruments and glassware since 1963.



SPECIFICATIONS

- Temperature range from -30°C to 110°C (cryostat is mandatory for temperatures below ambient)
- Temperature display in °C or °F
- 3 methods: NF M 07 011 ISO 13 736 IP 170
- Gas electric and ignition
- Double Flash point detection by ionisation ring and thermocouple
- Automatic Gas cut-off at the end of the test
- Data Storage: 200 results
- Optional low gas cartridge to work in all types of environments
- Auto diagnostic
- Quick access to calibration parameters



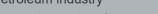
CONNECTION

RS232C output

APPLICATION

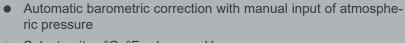


- Petroleum industry
- Cosmetics and perfumes
- Pharmaceutical industry
- Chemical industry
- REACH applications
- Transportation class for hazardous goods



- Biodiesel
- Lubricants
- Waste





- Select units : °C, °F, mbar, mmHg
- Calibration of temperature measurements (regulated baths or decade unit)
- Deletion or holding of expected temperature after each test
- Buzzer (continuous or 3 min)
- Correction of deviation of result: ± 9.9°C
- Sample security device parametrable from 3°C to 10°C above the expected temperature
- Alarm = safety 3 °C
- Printing of results with or without heating gradient
- Configuration of ignition, gas or electric

SAFETY FEATURES

- Heating safety device: Heating cut off at 130°C measured in the bath independently of the micro-processor with audible alarm
- Sample safety device: Current test stopped with audible alarm.
 Safety device programmable from 2 °C to 10 °C above the expected T°C
- Probe safety device : Probe missing on account of no increase in temperature (3°C in 10 min)
- Gas safety device: Optical detection of absence of flame with audible alarm and automatic cut off of gas with time delay of 30" and test stopped

OPTIONS

- Cryostat (needed below the ambient)
- RS 232 ticket printer
- NCAL, calibration kit
- Gas cartridge kit (P/N 60457) minimizes gas volume present in the lab.





ORDERING INFORMATION

Automated Abel flash point, **NAB 440**, has 3 preset standard methods, and 1 quick search method. This apparatus has a dual detection system-thermal and ionization.

41300

Scope of delivery:

The NAB 440 tester includes:

- Cup P/N 41301
- Cover P/N 41303
- Pt 100 probe P/N 41310
- Stirrer flexible P/N 41306
- Insulated tubing for connexion to cryostat P/N 60214
- Detection Thermocouple P/N 40379
- Detection Cable P/N 41309
- Electric Ignitor P/N 40613

Site requirements:

Power supply: AC 230 V, 50/60 Hz, 4 A

Dimension: (W) 270 x (D) 50 x (H) 550 mm

· Weight: 20 kg

SUMMARY

Temperature range

Temperature accuracy

Temperature measurement

Stirring

- 30 à + 110°C

0,1 °C

Probe Pt 100

2 speeds : 30 rpm

and 75 rpm

Detection

Ignition

Cooling system

Data storage

Thermocouple and /or lonisation

Automatic gas or electric

Connected to cryostat

200 results



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