NPM 450

PENSKY-MARTENS

AUTOMATED FLASH POINT TESTER



STANDARDS

ASTM D 93, IP 34, ISO 2719, NF M07019, DIN 51758, GBT 261 and related methods.

SCOPE

These test methods cover the determination of the flash point of petroleum products in the temperature range from 40 °C to 370 °C, and the determination of the flash point of biodiesel in the temperature range of 60 °C to 190 °C.



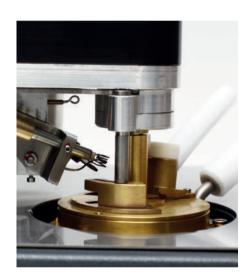




« EFFICIENT AND COMPACT UNIT »

TECHNICAL FEATURES

- Small size
- 6.4" capacitive touch screen
- One hand easy operation
- Sample cup, probe, thermocouple holder stand
- Test temperature range: 0 to 410°C
- Unique combine ignition system (electric and gas)
- Standard methods: A, B, C
- Integrated barometric correction
- User programmable methods
- Automatic gas flame relighting
- Flash point detection by thermocouple
- Heavy sample preheating and automatic strirring start
- Fast heating and cooling
- Rapid cooling of heating block by air turbine



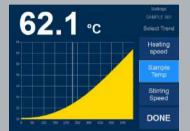
CONNECTIVITY

- 4 USB ports
- 1 RS232C port or LIMS
- 2 LAN ports
- 1 VGA port



SAFETY

- Illuminated extinguisher push button
- Gas flame detection
- Over-temperature protection
- Built in gas leak detector



SOFTWARE

- One hand easy operation
- Windows 8 operating system
- Lifetime data storage 32 GB SSD
- Reporting: PDF, Email, LIMS, Excel, Word...
- Different access level settable (Operator supervisor or maintenance...)



DISPLAY

Access from basic to advanced parameters made easy through the intuitive software and large screen.

- Data export through USB, LIMS, PDF or e-mails.
- User and password settings
- Data transfer to printer
- Product files configuration



ACCESSORIES

An Automatic N2 fire extinguisher is available in option:

- Allows a fire to be switched off by smothering.
- Acts on fire by reducing the oxygen content
- Very fast diffusion during emission
- Density comparable to that of air (composed of 78% nitrogen)
- Allows a durable maintenance of the extinction concentration

SCOPE OF DELIVERY

60400

The **NPM 450** delivered with:

Cup (P/N: 40346) and Lid (P/N: 60447)

Pt 100 probe (P/N: 60453)

Detection thermocouple cable (P/N: 60448)

Electric ignitor (P/N: 60480)

Site requirements:

Power supply: Ac 110/240 V, 50/60 Hz - 4 A

Dimension: (W) 260 x (D) 460 x (H) 185 mm

Weight: 12 kg

Propane/Butane pressure: mini 20 to 40 mBar max

Nitrogen : mini 4 Bar, maxi 12 Bar

SUMMARY

Flash point range **Heating rate**

Safety stop

Ignition **Electric ignition** Stirring speed Flash detection Cooling

0 to 410°C

0 to 15°C/min

0 to 30°C (above expected

flash point)

Electric and gas

Regulated / monitored 50 to 300 RPM (± 3 RPM)

Thermocouple

Integrated - Forced air

Gas connections

Automatic switch off

Hydrocarbon detection

Overheating protection

Real time clock Fire detection

Extinguisher push button

Automatic fire extinguisher

Propane / Butane, Nitrogen

Integrated

Integrated

Integrated

Integrated

Ionization

Integrated & illuminated

Integrated (nitrogen network or

optional bottle)



CONTACT: sales@normalab.com

Normalab FRANCE SAS 175, rue Claudie HAIGNERE 76190, Valliquerville

Tel.: +33 232.700.100 Fax: +33 232.704.732

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