

NCL 440

AUTOMATIC CLEVELAND OPEN CUP FLASH AND FIRE POINT TESTER



STANDARDS

ASTM D 92, IP 36, ISO 2592 and related methods.

SCOPE

This test method describes the determination of the flash point and fire point of petroleum products by a Cleveland open cup apparatus. The test method is applicable to all petroleum products with flash points above 79°C (175°F) and below 400°C (752°F) except fuel oils.



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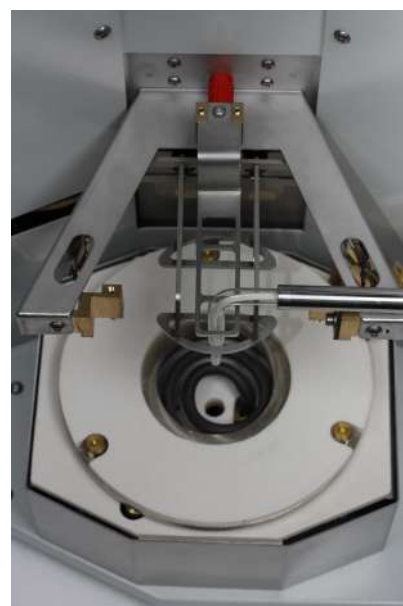
*Photos are non-contractual - they may differ from actual products.



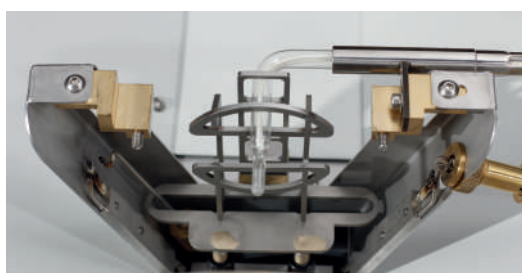
« OFFERS A GOOD
REPEATABILITY »

TECHNICAL FEATURES

- Test temperature range : 0°C to 400°C
- Temperature resolution : 0,1°C
- Angled glass probe type Pt100 class B
- Flash and fire point detection by ionisation rings
- Data storage: 200 results
- Pre-installed standard test methods
- Surface skimmer (Optional)



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APPLICATION

- Petroleum industry
- Research
- Bitumen
- Lubricants
- Paint

ACCESSORIES



Delivered in standard with the necessary accessories to run a test, you can complete your device with :

- **Surface skin skimmer** (P/N 40480)
(The skimmer has been designed to remove the surface skin from bituminous samples during the test.)
- **Gas cartridge kit** (P/N 40483)
The option minimizes the volume of gas present in the lab.
- **Protective screen** (P/N 40454)
Reduces the exposure of the sample cup to external disturbances during the analysis.
- **Pt 100 probe stainless steel delivered in standard with skimmer option** (P/N 40467)
- **Anti over flow cup** (P/N 40422)
- **Thermal ticket printer** (P/N 40490)

SAFETY



For safety reasons, the NCL 440 is equipped with several protection user systems:

- Automatic flame lightening
- Emergency safety switch
- Safety thermocouple
- Detection of gas with audible alarm
- Automatic gas cut-off at the end of the test
- Thermal fuse with auto cut-off gas supply (overheating protection)
- Shutter lid at the end of the test

SOFTWARE



You can choose the best program according to your application (4 pre-installed programs) :

- Automatic
- Bitumen
- Manual
- Research (unknown flash point)

Access to calibration and service parameters can be protected by password.

SCOPE OF DELIVERY

40400

Scope of delivery:

NCL 440 is delivered ready to use with:

- Cup (P/N 40417)
- Pt 100 probe (P/N 40441)
- Electric ignitor (P/N 40380)
- Insulated mobile plate (superior) (P/N 40439)
- Insulated fixed plate (intermediate) (P/N 40437)
- Metal plate

40480

NCL 440 with surface skin skimmer
(Can not be ordered separately from the instrument)

Site requirements:

- Power supply: 230 V - 50/60 Hz - 1000W
- Dimension: (W) 330 x (D) 400 x (H) 640 mm
- Weight: 20 kg

Propane/Butane pressure: 50 mbar

SUMMARY

Temperature range	0 to 400°C	Gas connection	Propane / Butane
Sample temperature	Pt 100 probe Class B	Data storage	200 results
Ignition	Gas	Gas cut off	Automatic
Flash detection	Ionisation ring		
Fire detection	Ionisation ring		



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