

NMC 460

MICRO CARBON CONRADSON RESIDUE TESTER - AUTOMATIC



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

STANDARDS

Conforms to ASTM D 4530, ISO 10370 & IP 398, in correlation with ASTM D 189 & DIN 51551 and related methods.

SCOPE

This test method covers the determination of the amount of carbon residue, formed after evaporation and pyrolysis of petroleum materials under certain conditions and is intended to provide some indication of the relative coke forming tendency of such materials.

« The NMC 460, automatic device for determining carbon residue »

MAIN FEATURES

- Holding temperature : 450°C to 550°C
- Type K thermocouples (oven and safety)
- Heating rate of 12.5°C/min ($\pm 2.5^\circ\text{C}/\text{min}$)
- Up to 12 samples can be analyzed simultaneously
- Automatic calculation of carbon residue
- **Compact device**
- Oven cooling by internal turbine
- Nitrogen flow from 150 to 600ml/min with 2 preset flows and mass flow meter control
- 1 fixed program (compliant with standard)
- 12, 7 and 6-hole carousels
- Glass vials : 2ml / 4ml / 16ml
- Pressure gauge on the front panel
- Purge phase adjustable up to 50 minutes
- Forced ventilation of the electronic compartment
- Gas fitting for $\varnothing$ 4mm tubing, 9 bar max
- Calibration in real conditions (or by simulator) $\pm 9.9^\circ\text{C}$



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CONNECTIVITY

- 3 USB ports 3.0 (front)
- 1 USB 2.0 (rear)
- HDMI 2.0 (rear)
- LIMS connection: RS-232, Ethernet (rear)

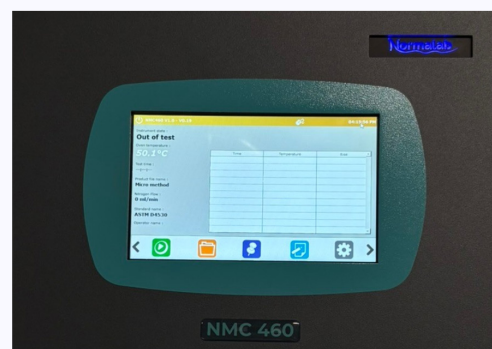
FOCUS

Mass flowmeters

- Quantity of gas measured, not volume ; reading unaffected by upstream pressure or room temperature
- Proportional solenoid valve control ; setpoint held continuously
- No moving part during measurement
- Actual flow rate displayed during the test with visual graph
- Tare and offset calibration via menu, without dismantling

SOFTWARE & DISPLAY

- 7" Capacitive touchscreen
- Possibility to connect external mouse and keyboard
- Windows 11
- Multilingual (FR/EN)
- Data export via USB, e-mail, RS-232, or print on a USB-connected PC printer
- Self-diagnostic
- User-friendly software interface
- 3 access levels (including operator profile)
- Temperature, heating power and nitrogen flow graphs
- > 1 000 results & > 1 000 product files
- Deferred weighing: once amples moved to desiccator; new run can start, weights entered afterwards.



APPLICATIONS

- Crude Oils
- Fuel Oils
- FAME, M-FAME
- Academic research

SAFETY

- Emergency stop button
- Safety thermocouple (separate from the oven's thermocouple)
- Safety shutdown point: 600°C (configurable)
- Shutdown on failure or out-of-tolerance nitrogen flow
- Automatic shutdown beyond 300 mins
- Audible alarm

ACCESSORIES & OPTIONS

- Small vials, 2mL
- Medium vials, 4mL
- Larger vials, 16mL
- 12 places vials holder (small and medium)
- 6 places vials holder (large)
- 7 places vials holder (4 small, 3 large)
- Analytical balance
- NCAL, calibration kit
- Keyboard and mouse
- Printer



SCOPE OF DELIVERY

61100 The NMC 460 is supplied with

- 12 vials of 2mL (REF. 41001)
- 6 vials of 16mL (REF. 41002)
- 3 holders: larger, small and mixed
- Cleaning cable
- Lid gripping hook
- Insulating lid
- 1 pair of high-temperature gloves



Site requirements

- Power supply: 230V ($\pm 5\%$) - 50/60Hz, 1 600 W (7.5A)
- Dimensions (mm): 605(W) x 345(D) x 445(H)
- Weight: 37kg
- Nitrogen: 9 bar (900kPa) max upstream, 2 bar (200kPa) in service

SUMMARY

Holding temperature	450°C to 550°C
Heating rate	12.5°C /min ($\pm 2.5^\circ\text{C}$)
Temperature unit	°C, °F, K
Temperature measurement	Type K thermocouple

Nitrogen flow	150 to 600ml/min
Capacity	Up to 12 vials
Cooling system	Internal turbine
Data storage	SSD (> 1 000 results)

Normalab

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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