

MODEL NMC 445

AUTOMATIC MICRO CONRADSON CARBON RESIDUE AND ASH TESTER



STANDARDS

ASTM D 4530, D 189, ISO 10370, IP 398 and related methods.

SCOPE

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

NMC 445 is an automated carbon residue tester developed by Normalab. Normalab has been designing and manufacturing petroleum testing instruments and glassware since 1963.



« IMPROVEMENT FOR
BETTER PERFORMANCE »

SPECIFICATIONS

- Fully automatic calculation of % carbon residue or ash (required balance)
- Quick verification of nitrogen flow rate on front panel
- Automatic controlled atmosphere into the furnace
- Test reports including initial weight and results
- Maximum test temperature : 775°C
- 2 pre-set methods + 18 additional ones with 4 heating segments each
- Automatic nitrogen flow rate switch
- Quick access to calibration parameters
- Data storage : 200 results



APPLICATION

- Non volatile petroleum
- Crude
- Oils
- 10% distillation residue

ACCESSORIES

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



- Small vials
- Medium vials
- Larger vials may be used for samples that are expected to yield residues $<0,10\%$ (m/m)
- Porcelain crucibles for ash test
- 12 places vial holders (small and medium)
- 6 places vial holders (large)
- 7 places vial holders (4 small and 3 large)

ANALYTICAL BALANCE

For automatic calculation of ash or carbon residue percentage, an analytical balance must be ordered with the device. The balance can be connected to record data.

- Weighing up to 120g
- Resolution 0,1mg

EASY CONFIGURATION

Delivered ready to use, our NMC 445 is user-friendly with its digital screen and the quick access keypad. You can easily program the parameters. The integrated software allows you :

- Transfer the select result on local printer
- Table configuration



ORDERING INFORMATION

Fully automated model of carbon residue determination

41030

NMC 445 heats under an inert atmosphere in a controlled manner for a specific time. It gives the detailed test report and the calculated carbon residue and ash test.

Scope of delivery:

NMC 445 is delivered ready to use with:

- 12 x 2 ml sample vials (P/N 41001)
- 6 x 16 ml sample vials (P/N 41002)
- 3 vial holders: large, small and mixed (P/N 41005, P/N 41006, P/N 41007)
- Cleaning cable (P/N 41045)
- Hook for safe hot lid manipulation (P/N 41008)
- Ticket printer (P/N 40386)

Gas connection necessary

Site requirements:

- Power supply: 230 V - 50/60 Hz - 16 A
 - Dimension: (W) 430 x (D) 630 x (H) 480 mm
 - Weight: 35 kg
- Air filtered and Nitrogen purity 99,998%: 2,5 bar max

SUMMARY

Ambient temperature of use	15 to 30 °C	Temperature safety	By regulated separate thermocouple
Furnace temperature range	0 to 775 °C	Maximum gas pressure	2.5 bars (250 kPa)
Furnace temperature sensor	Thermocouple K	Minimum gas Pressure	1 bar (100 kPa)
Cooling of the furnace	Accelerate by internal turbine at 500 °C	Safeguarded results	99 results
Safety Stop probe furnace	Program between 600°C and 900°C	Number of programs	18 programmable with 2 fixed programs
Temperature measurement resolution	0.1 °C		



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