

Micro Carbon Residue Tester 97400-3

Micro Carbon Residue of Petroleum Products

ASTM D4530-IP 398; ISO 10370

- Carbon residue range 0.1% to 30.0% (m/m)
- Automatic temperature ramp and gas control flow
- Easy set up and user friendly interface
- Calibrated for precise temperature ramp rate



Petroleum Oils • Crude Oil • Lubricating Oils

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Micro Carbon Residue

Micro Carbon residue tests are designed to provide an indication of the coke forming tendencies of oils and fuels under certain conditions. The relevant test method is ASTM D4530 - Determination of Carbon Residue (Micro Method) and is applicable to petroleum products that partially decompose on distillation at atmospheric pressure.

Typical petroleum products covered include Lubricating Oils, Base Oils, Fuel and Gas Oils as well as crude oil. The test is a useful guide used in manufacture of lubricants. ASTM D4530 is called up in a number of key product specifications and in the case of BioDiesels it is the referee test.

Micro Carbon Residue Tester

The Seta Micro Carbon residue tester is an automatic instrument designed to run tests to determine the carbon residue formed after evaporation and pyrolysis of petroleum products as per ASTM and IP test methods.

The instrument comprises of an oven and insulating lid with curved top plug as defined in ASTM D4530 and IP 398.

Nitrogen gas purging and temperature RAMP sequences are fully automatic and no operator intervention is required when running the test.

The instrument is supplied with a 12 place holder, 6 place holder, removal tool, condensate trap, over lid, braided hose for nitrogen gas and rubber exhaust hose.

Large LED Display

A large, simple, LED display featuring unique 18mm display digits provides users with clear visibility at all times.



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Test temperature range	Ambient to 500°C +/- 2°C
Ramp rate	10 to 15 °C/min
Thermocouple	Iron-constantan
Pressure controller	20 to 750 kPa
Primary pressure	1400 kPa max
Flowmeter	0.1 to 1 litre/min
Flow rate	Automatic: 150 ml/min or 600 ml/min
Power	1.6 kW
Consumption	Approx 40 l/N ₂ per test
Size (H x W x D)	46 x 35 x 39 cm
Weight	21 kg

Required Accessories

Part Number	Description
97401-0	Glass sample tube 2ml (pack of 100)
97402-0	Glass sample tube 16ml (pack of 100)
97403-0	Sample tube 4ml for ISO 10370 (pack of 100)

MTVM Fuel Oil Standard:	Test Method:	Range:	Volume:
99852-0	ASTM D4530; IP 398; ISO 10370	0.10 to 30.0 %(m/m)	500 mL



For more information please visit: www.stanhope-seta.co.uk