



NewLab 225 Filter Blocking Tendency



ASTM D 2068 ASTM D 6426 IP 387

Determination of the filter blocking tendency (FBT) and filterability of middle distillate fuel oils and liquid fuels such as biodiesel and biodiesel blends. The three procedures and associated filter types are applicable to fuels within the viscosity range of 1.3 mm² to 6.0 mm²/s at 40 °C.

Measuring Principle

A sample of the fuel to be tested is passed at a constant rate of flow (20 mL/min) through a glass fiber filter medium. The pressure drop across the filter is monitored during the passage of a fixed volume of test fuel. If a prescribed maximum pressure drop is reached before the total volume of fuel is filtered, the actual volume of fuel filtered at the time of maximum pressure drop is recorded and used to obtain the automatic calculation result. Otherwise if the prescribe volume is filtered without reach the 105kPa pressure, the maximal pressure during the test is recorded and used to obtain the result.

Automatic Filter Blocking Tendency Analyser (FBT)

- Integrated cooling system equipped with Peltier module.
- Working temperature up to -5°C.
- Measuring device complete with support for filter, beakers, PT100 sensor class A, level sensor, pressure gauge, tubes and joints.
- Peristaltic pump 20 ml/min with in-line pressure sensor.
- Over pressure protection.
- Managed by a touch screen PC by means of the Lab-Link software running in Windows ambient.
 - LCD 12" touch screen with micro computer.
 - Resolution 1024 × 768 and 16M colours.
 - I/O ports: 2 × USB.
 - Storage capacity for more than 60'000 analysis.

Dimensions (cm)

- width 47
- depth 48
- height 60

Weight

- 17 kg

Power supply

- 220 Vac or 115 Vac 50/60 Hz

Max. Consumption

- 400 Watt

Consumables

- 7354: Glass fibre filters, 13 mm diameter, pack of 100 pcs.

Accessories / Other Methods:

- 7355: Kit for ASTM D2068 method B, composed by filter support, filter 1.6 µm, filter taper housing, joint for connection, kit for 150 tests.
- 7365: Kit for ASTM D2068 method C, composed by filter support, filter 5 µm, filter Luer housing, joint for connection, kit for 150 tests.

Spare Parts:

- 17107: PT100 bath.
- 3007: HT Peltier.
- 3168: PT100 sample probe.
- 1165: 400 ml beaker.
- 15758: Glass cell lid.
- 17554: Level sensor.
- 15717: Luer lock filter support.
- LAB-225/008-16: Connection tube 6 × 4, 3 meters.

Tools Required for Routine Calibration:

- 3013: Calibration decade box - PT100 Simulator.
- 3102: Kit of connectors and cables.
- 2335: Pressure gauge double scale 0-200 kPa, 0-30 Psi, made in stainless steel, with ½" adapter and T connection.

Accessories / Liquid:

- 5499: Stainless steel forceps for manage the test filters.
- 7631: Verification fluid, 500 ml.