

Flash-Point with Closed Cup - Abel Method (semi-automatic)

ISO 1516, ISO 1523, ISO 13736, EN 924, IP 113 (obs.), IP 170, IP 304-1 (obs.), IP 304-2 (obs.), IP 491, IP 492, NF M07-011 (obs.), NF T66-009, BS 3442-2 (obs.)

Product group(s): Flash Point

User group(s): Fuel, Jet Fuel, Paint, Regulatory Authorities, Solvent, Varnish

Scope: The Abel-Methods describe the determination of the closed-cup flash-point of petroleum products and other liquids having flash-points between -30 °C and +70 °C.

The Equilibrium-Methods describe the determination of the closed-cup flash/no flash temperature of paints, varnishes, paint binders, solvents, adhesives, petroleum & related products between -30 °C and +110 °C.



Flash-Point Abel Test Equipment

to be composed of:

- Flash-Point Tester - ABEL Method
- Pipette
- Pre-Regulating Valve

Technical Data

<u>Temperature range:</u>	-18 to +71 °C (-0.4 to +160 °F)
<u>Cooling:</u>	liquid cooled (external)
<u>Ignition:</u>	gas
<u>Dimensions:</u>	27 x 32 x 47 cm (W x D x H)
<u>Weight:</u>	9 kg

Main Unit

12-1270

Semi-Automatic Flash-Point Tester, ABEL Method

Abel Method: IP 170 (BS 3442-2) - ISO 13 736 (NF M07-011) - NF T66-009 (IP 113)

not over full temperature range:

Equilibrium Method: EN 924 - IP 491 (IP 304-2) - IP 492 (IP 304-1) - ISO 1516 - ISO 1523

Consisting of:

water bath with electric heater and cooling coil for connection of an external cooler, energy regulator, electric stirrer

Supplied with:

- 1 cup
- 1 cover with gas-igniter
- 1 thermometer IP 74C (for cup)
- 1 thermometer IP 75C (for bath)
- 1 thermometer depth-gauge

Note:

Circulation cooler (e.g. 25-0382) might be necessary.

Power supply: 230 V, 50/60 Hz

Options & Accessories

12-0052	Pipette, 25 ml
12-0629	Pre-Regulating Valve for gas supply with hose adapter, suitable for all types of burning gases
12-1755	Digital Precision Barometer, 300...1100 mbar : 2 mbar
12-1751	Case for barometer
12-1752	Certificate for barometer - 5 measuring points
12-1753	Certificate for barometer - 10 measuring points
12-1754	Battery for barometer 9-V-Block

Spare Parts

16-0375	Thermometer ASTM 6C / IP 2C Range: -80 to +20 : 1 °C Length: 230 mm, Immersion: 76 mm, Ø 7 mm
16-0376	Thermometer ASTM 6C / IP 2C Range: -80 to +20 : 1 °C (officially certified)
90-0306	Thermometer IP 74C Range: -35 to +70 : 0.5 °C Length: 310 mm, Immersion: 61 mm, Ø 6.5 mm
90-1306	Thermometer IP 74C Range: -35 to +70 : 0.5 °C (officially certified)
90-0248	Thermometer IP 75C Range: -30 to +80 : 0.5 °C Length: 310 mm, Immersion: 89 mm, Ø 6.5 mm
90-1248	Thermometer IP 75C Range: -30 to +80 : 0.5 °C (officially certified)
12-1282	Thermometer Collar, Ø 11.7 mm
12-1286	Thermometer Depth Gauge
12-1277	Stirrer-Motor, 30 rpm, 24 V, 50 Hz
12-1280	Cup - ABEL
12-1281	Cover - ABEL, with gas igniter
12-1283	Flexible Stirrer Shaft
12-1284	Heater, 230 V

Order Guideline

Minimum equipment:	1 each: 12-1270, 12-0052, 12-0629
Spares (approx. 1 year):	1 thermometer
Additional requirements:	gas supply, cryostat