elcometer®
inspection equipment

Elcometer 6910
Flashpoint

Flash Point

Elcometer 6910/1

Setaflash 'Series 3' Closed Cup Tester

The Elcometer 6910/01 Closed Cup Tester is an easy to use instrument that can complete a flash/no flash test in less than two minutes or determine the flash point of a sample within a temperature range of ambient to 300°C (ambient to 572°F).

It provides fast and reliable flash point results and requires minimum operator skills. Test parameters, instrument status and test results are accessed via the touch screen display and a push button, which guide the operator through a straightforward testing process.

An audible prompt is sounded when a flash is achieved. An automatic flash detector reduces the chance of misinterpretation of the test result by the operator and enhanced repeatability. For easy record keeping the instrument stores 100,000 test results, which can be saved and transferred via the USB port.

Gas for the test jet shutter assembly is supplied from an integral gas tank, which is filled using a standard butane (lighter) refill cartridge.

- Flash point test in less than 2 minutes
- Small sample size, 2ml (0.067fl oz) or 4ml (0.135fl oz)
- Automatic flash detection
- Automatic barometric correction
- USB port and result storage
- Colour touch screen
- Portable
- Simple calibration

STANDARDS:

ASTM D1655, ASTM D3278, ASTM D3828, ASTM E502, BS 2000-523, CLP Regulations EC No 1272/2008, DEF STAN 91-91, EPA 1020 A & B, ISO 3679, ISO 3680, UN Class 3 Non-viscous Flammable Liquids

Technical Specification

Part Number	Description	Certificate
K6910M010	Elcometer 6910/1 Setaflash 'Series 3' Closed Cup Tester	○
Temperature Range	Ambient to 300°C (Ambient to 572°C)	
Sample Size	2ml (0.067fl oz) or 4ml (0.135fl oz)	
Fuel Supply	Integrated gas tank (removable)	
Cup Material	Aluminium	
Dimensions	195 x 295 x 140mm (7.6 x 11.6 x 5.5")	
Data Storage and Download	1GB internal memory and integrated USB port	
Pressure Correction	Automatic barometric correction	
Weight	3kg (6.6lb)	
Packing List	Elcometer 6910 Setaflash 'Series 3' Closed Cup Tester, 2ml (0.067fl oz) syringe, gas valve & cap, viton 'O' ring, mains power cable, 2mm Allen key, quick start guide, USB memory stick with user manual, quality assurance certificate and warranty registration form	

Accessories

KT006910N001	Cooling Module Option for 5°C (41°F) Ambient Temperature
KT006910N009	Certified Flash Point Material (50ml/1.7floz)

○ Optional Calibration Certificate available.

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Setaflash 'Series 3' Open Cup Tester

The Elcometer 6910/2 Open Cup Tester offers the fastest and most accurate flash point instrument at a cost effective price.

Certain substances, classified as "flammable" by closed cup flash point testing, may be reclassified as "non-flammable" by combustibility testing. This has significant potential cost reduction implications for the packaging, storage and shipping of many materials.

The Elcometer 6910/2 features an open cup for flash/no-flash finite determinations or sustained combustion tests, audible and on-screen prompts and easy calibration. Flash point tests can be conducted in less than two minutes with a temperature range from ambient to 300°C (ambient to 572°F).

A manually operated flame sweeping arm is fitted to the cup and gas is supplied from the integral tank via a control valve. The flash or sustained combustion characteristics of the sample are observed visually by passing the test flame over the sample.

- Flash point test in less than 2 minutes
- Small sample size, 2ml (0.067fl oz)
- Audible and on-screen prompts
- Portable
- Simple calibration

STANDARDS:

ASTM D1655, ASTM D3278, ASTM D3828, ASTM E502, BS 2000-523, CLP Regulations EC No 1272/2008, DEF STAN 91-91, EPA 1020 A & B, ISO 3679, ISO 3680, UN Class 3 Non-viscous Flammable Liquids

Technical Specification

Part Number			Description	Certificate
UK 240V	EUR 220V	US 110V		
K0UK6910M011	K0006910M011	K0US6910M011	Elcometer 6910/2 Setaflash 'Series 3' Open Cup Tester	○
Temperature Range	Ambient to 300°C (Ambient to 572°F)			
Sample Size	2ml (0.067fl oz)			
Test Time	1 minute for flash points up to 100°C (212°F)			
	2 minutes for flash points above 100°C (212°F)			
Temperature Measurement	0.5°C (1.0°F) resolution 0.5°C (1.0°F) accuracy			
Cup Material	Blackened aluminium			
Dimensions	260 x 280 x 260mm (10.2 x 11.0 x 10.2")			
Weight	5kg (11.0lb)			
Packing List	Elcometer 6910 Setaflash 'Series 3' Open Cup Tester, 2ml (0.067fl oz) syringe, gas valve & cap, 105mm silicone tube, test flame height gauge, mains power cable, inspection certificate, warranty registration form and operating instructions			

Accessories

KT006910N001	Cooling Module Option for 5°C (41°F) Ambient Temperature
KT006910N009	Certified Flash Point Material (50ml/1.7fl oz)

○ Optional Calibration Certificate available.

Flash Point

Elcometer 6910/3 — Setaflash 'Series 3' Active-Cool Closed Cup Tester

The Setaflash 'Series 3' Active-Cool Tester offers the same features as the Elcometer 6910/1 Setaflash but is fitted with a cup suitable for testing corrosive samples.

It has been designed to carry out flash/no flash tests rapidly and efficiently to determine the flash point of liquids and semi-solids in the 10°C to 130°C (50°F to 266°F) temperature range. A sample cup is heated and then cooled by Peltier cells. This gives very accurate and stable sub-ambient test temperatures and the benefit of rapid temperature normalisation between tests.

Flash point is automatically detected using a thermally activated detector, reducing the risk of operator error and minimising the potential danger of inhaling fumes during a test. A rechargeable gas tank with on/off switch and fine adjustment are integral to the unit.

- Flash/No Flash & Ramp Modes
- Flash point test in less than 2 minutes
- Small sample size, 2ml (0.067fl oz) or 4ml (0.135fl oz)
- Automatic flash detection
- Electronic Peltier cooling
- Audible and on-screen prompts
- Portable
- Corrosion resistant cup insert

STANDARDS:
ASTM D1655, ASTM D3278, ASTM D3828, ASTM D7236, ASTM E502, BS 2000-523, DEF STAN 91-91, EPA 1020 A & B, ISO 3679, ISO 3680, UN Class 3 Non-viscous Flammable Liquids

Technical Specification

Part Number	Description	Certificate
K6910M013	Elcometer 6910/3 Setaflash 'Series 3' Active-Cool	o
Temperature Range	10°C to 135°C (50°F to 275°F)	
Test Modes	Rapid Equilibrium and Ramp	
Sample Size	2ml (0.067fl oz) for flash points up to 100°C (212°F)	
	4ml (0.135fl oz) for flash points above 100°C (212°F)	
Test Duration	1 minute below 100°C, 2 minutes above 100°C, or user determined 1 to 99 minutes	
Ramp Rate	2°C/min ramp (3.6°F/min ramp)	
Cup Material	Corrosion resistant steel insert	
Dimensions	195 x 295 x 140mm (7.6 x 11.6 x 5.5")	
Weight	3kg (6.6lb)	
Packing List	Elcometer 6910 Setaflash 'Series 3' Active-Cool Closed Cup Tester, 2ml (0.067fl oz) syringe, gas valve & cap, power supply, mains power cable, 2mm Allen key, quality assurance certificate, warranty registration form and operating instructions	

Accessories

KT006910N009	Certified Flash Point Material (50ml/1.7fl oz)

o Optional Calibration Certificate available.

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