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eraflash s10

THE AUTOMATED SIDE OF SAFE FLASH POINT TESTING

Standard test methods:

ASTM D6450, D7094, D8606,
ISO 24966, IP 620, SH/T 0768

Fuel specifications:

ASTM D396, D975, D1655, D2880,
D3699, D7467, D7566



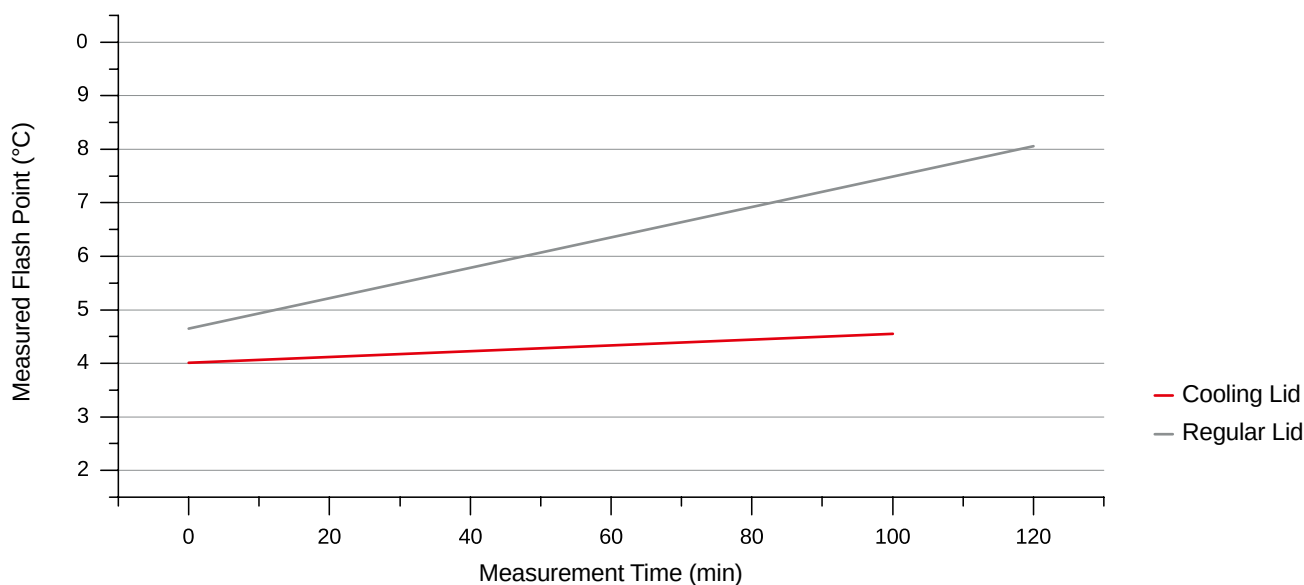
eraflash s10: high sample throughput combined with maximum safety and performance

eraflash s10: Maximum Safety and High Operator Comfort

The fully automated, 10-position autosampler flash point tester eraflash s10 is the ideal instrument for unattended measurements in high sample throughput laboratories. With a sample volume of only 1-2 mL, the Continuously Closed Cup Flash Point measurement technique guarantees maximum safety, even for highly flammable samples.

A Cooling Lid for Increased Measurement Speed

In combination with an external chiller, eraflash s10's optional cooling lid provides unsurpassed value, especially for applications that involve the measurement of volatile samples such as flavors & fragrances. The cooled lid keeps the pending samples stabilized at a low temperature, minimizing the evaporation of volatile sample components. The pre-cooled samples not only ensure precise and reliable test results, but also reduce the turnaround time for faster measurements at lower temperatures.



The Safest Flash Point Tester

The innovative Continuously Closed Cup Flash Point (CCCFP) test methods ASTM D6450 and D7094 use only 1 or 2 mL of sample that is sealed in a closed cup during the entire measurement process. An electrical arc inside the cup ignites the sample vapor, and a flash point is detected if the monitored pressure peak exceeds 20 kPa during the ignition. The oxygen inside the sealed chamber is immediately consumed, which extinguishes the flame automatically.

Unmatched Range

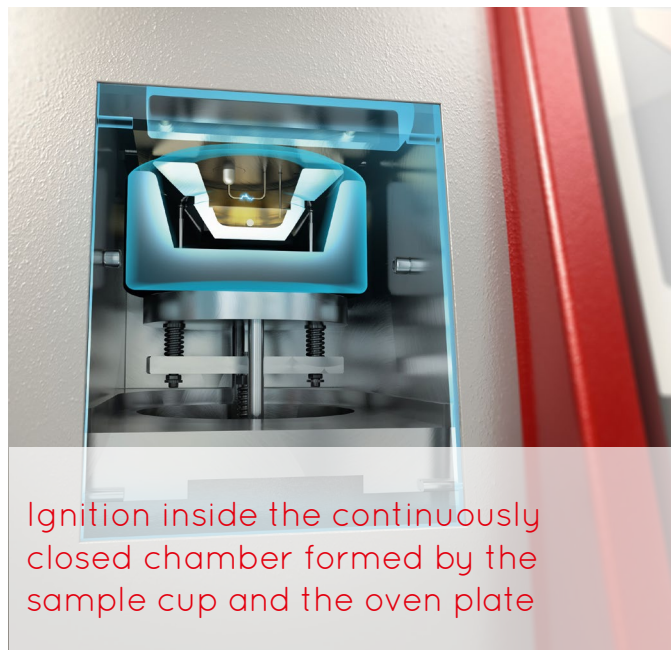
eraflytics' patented PBT – Peltier Boost Technology® allows for previously unmatched heating and cooling rates. A sophisticated mechanism automatically separates the Peltier elements from the heating plate and sample cup at higher temperatures, protecting them from otherwise heat-induced damage. This enables the widest temperature range from -25 °C up to 420 °C in a single analyzer by combining the technique of Peltier and heating elements in one unique design.

Intuitive User Interface

The intuitive application software makes daily flash point testing an easy task. Measurement routines are stored in customized profiles for reduced operational complexity. All software features, including the built-in quality control mode, are available directly on the analyzer; a PC is not required. Sample IDs can be conveniently and automatically entered via a barcode scanner.

Applications

eraflash **s10** is used across many industries. Its small sample volume and high throughput makes it the ideal analyzer for high-cost samples like flavors and fragrances. It can also easily handle petroleum products such as diesel, jet fuel, fresh and used oils, as well as coatings, including paints and varnishes.



Ignition inside the continuously closed chamber formed by the sample cup and the oven plate

Available Models:

The Autosampler Tester

eraflash **s10** (EFS10)

Range: -25 °C to 420 °C (-13 °F to 788 °F)

The All-round Tester

eraflash (EF10)

Range: -25 °C to 420 °C (-13 °F to 788 °F)

The Low-Temperature Tester

eraflash **lt** (EF20)

Range: -40 °C to 120 °C (-40 °F to 248 °F)

The Petroleum Tester

eraflash **X** (EFX10)

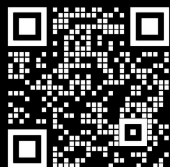
Range: 18 °C to 370 °C (64 °F to 698 °F)

Technical Specifications of eraflash s10

Standard Test Methods	ASTM D6450, D7094, D8606, ISO 24966, IP 620, SH/T 0768
Fuel Specifications (ASTM D7094)	ASTM D396, D975, D1655, D2880, D3699, D7467, D7566
Approved by	NATO, RCRA, US DOT, US NAVY
Special Test Methods	Fast screening test method SCAN for unknown samples, Flash / No Flash tests, freely programmable test methods
Correlation to	Pensky-Martens Closed Cup: ASTM D93, EN ISO 2719, DIN 51758, IP 34, JIS K2265 TAG Closed Cup: ASTM D56 Abel-Pensky Closed Cup: ISO 13736, IP 170 Small Scale Closed Cup and Flash / No Flash methods: EN ISO 3679/3680, ASTM D3828
Sample Handling & Operation	Stand-alone 10-position autosampler, no PC required
PBT – Peltier Boost Technology®	High-speed heating & cooling -25 °C to 420 °C (-13 °F to 788 °F) with a single analyzer
CPT – Contamination Prevention Technology™	Advanced electrode protection and self-cleaning ignition system to minimize cleaning and maintenance
Temperature Range	0 °C to 200 °C (32 °F to 390 °F) stand alone Down to -25 °C (-13 °F) with external cooling Up to 420 °C (788 °F) with optional High Temperature Module (EFS01-HTM)
Temperature Stability	0.1 °C (0.2 °F)
Reproducibility (ASTM D7094)	R = 3.2 °C for diesel fuel at 60 °C R = 5.6 °C for lube oil at 200 °C
Measurement Time	5 min (D6450) or 10 min (D7094) for diesel fuel (FP 60 °C)
Sample Volume	1 mL (ASTM D6450), 2 mL (ASTM D7094)
Cooling Lid (optional)	Temperature-controlled down to 5 °C (41 °F) with external cooling
QuickCal™	Fast on-site calibration with eralytics unique calibration cup without the need to dismantle the instrument
QC Mode	Built-in quality control mode including on-screen QC charts
Interfaces	Built-in PC with Ethernet, USB and RS232 interfaces; Wi-Fi via USB dongle Direct LIMS connectivity via LAN and output to printer or PC Optional input by external keyboard, mouse and barcode reader
PC Software	erasoft RCS – remote control Windows® software for multi-instrument remote control, convenient data transfer and result analysis
Operating Conditions	Temperature range 10 °C to 40 °C Humidity up to 90% RH, non-condensing
Power Requirements	Auto-switching 85 – 264 V AC, 47 – 63 Hz, max. 150 W (multi-voltage power supply) Field application: 12 V DC (vehicle battery) adapter available
Dimensions / Weight (W x D x H)	29.5 x 36.9 x 45.4 cm (11.6 x 14.5 x 17.9 in) / 18.1 kg (39.9 lb)

Due to continuing product development, specifications are subject to change.

All **eralytics** products are manufactured under ISO 9001 regulations and are CE, ROHS and UL/CSA compliant. www.eralytics.com/eraflash-s10



eralytics instruments are available worldwide.
An international network of over 50 authorized and well-trained distributors is ready to answer your inquiries and to offer local support and service.
www.eralytics.com/sales

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