eralytics performance you can rely on

eraflash S10

THE AUTOMATED SIDE OF SAFE FLASH POINT TESTING

Standards
ASTM D6450, D7094

Fuel Specifications
ASTM D396, D975, D2880, D3699, D7467

www.eralytics.com/eraflash-s10

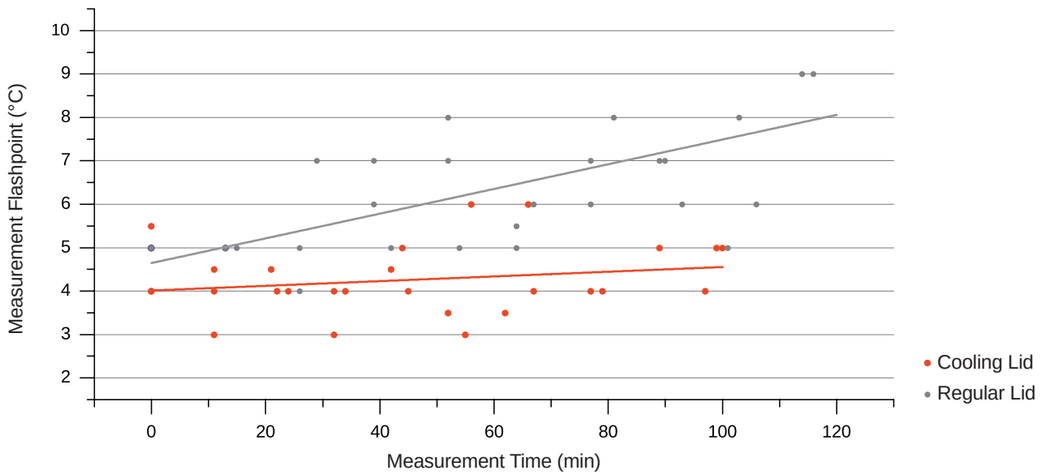
eraflash s10 high throughput combined with a low sample volume

ERAFLASH S10 guarantees maximum safety with high operator comfort

The innovative fully automated ten-position-autosampler ERAFLASH S10 easily determines the flashpoint of highly flammable and volatile samples. ERAFLASH S10 not only needs a very low sample volume of 1-2 mL; its intrinsically safe Continuously Closed Cup Flash Point (CCCFP) measurement method also guarantees maximum safety. Therefore, it is the ideal instrument for unattended measurements, e.g. in high-throughput laboratories.

A cooling lid for shorter turnaround times

ERAFLASH S10's optional cooling lid is an unsurpassed benefit, especially in applications that involve highly volatile samples. The lid keeps the pending samples stable at a low temperature, which makes volatile compounds far less likely to evaporate before their measurement starts. Therefore, results are more precise and more reliable. With pre-cooled sample cups cooling at the beginning of the measurement can also be less intense, which results in shorter turnaround times.



Efficient and Safe Measurement

ERAFLASH S10 allows high throughput with less than 45 minutes turnaround time for up to 10 samples. The CCCFP methods ASTM D7094 and ASTM D6450 only need a very low sample volume of 1-2 mL. This makes it the analyzer of choice for test laboratories that handle large amounts of high-cost samples every day.

Well designed Engineering

eralytics patented PBT – Peltier Boost Technology™ allows significantly shorter turnaround times through faster heating and cooling rates and facilitates a temperature range from -25 °C to 420 °C (-13 °F to 788 °F) in a single analyzer. The selfcleaning ignition system, which is the output of our Contamination Prevention Technology™, reduces cleaning and maintenance efforts to an absolute minimum. And that in addition to the sophisticated design, which avoids contamination by splashing in the first place.

Intuitive User Interface

With the intuitive software the measurement procedure of pending sample positions can be interrupted and modified without influencing the ongoing measurement. The built-in quality control mode with its alert system warns if results are outside a defined temperature range. A comfortable bar code scanner can be used if the samples are identified by bar codes, which are then automatically added as sample IDs.

One Instrument – Many Applications

ERAFLASH S10 is perfectly suitable for a large number of industries. It is perfect for the fragrance and flavor industry where the most high-cost samples are handled. It is also suitable for many more applications such as used oils, fresh oils, fuels & bio diesel (FAME), fuel dilution, tar, asphalt & bitumen, paints & varnishes, pulverized & liquid waste.

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

Autosampler Model

EFS10 ERAFLASH S10 Ten-position-autosampler

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

High Temperature Extension

EF01-HTM High Temperature Module for ERAFLASH and ERAFLASH S10

Temperature range: up to 420 °C (788 °F)

Standard Model

EF10 ERAFLASH Flash Point Tester

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

Low Temperature Model

EF20 ERAFLASH LT Flash Point Tester

Temperature range:

-40 °C to 120 °C (-40 °F to 248 °F)

Technical Specifications

Available Test Methods	ASTM D6450 & D7094
Pre-programmed Correlation Methods 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, EN ISO 3680, ASTM D3828
Fuel Specifications (ASTM D7094)	ASTM D396, ASTM D975, ASTM D2880, ASTM D3699, ASTM D7467
Speed Tests	Fast screening test programs for unknown samples
Number of Positions	10 positions
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
Combustion Graphics™	Display of combustion characteristics for contamination analysis
QC Mode	Built-in quality control mode including on-screen QC charts
Cooling Lid Temperature	5 °C to 30 °C (optional)
Fuel Dilution Program	Automatic fuel dilution measurement for the analysis of used engine oils
Temperature Range	0 °C to 200 °C (32 °F to 390 °F) stand alone. No external cooling is required. Down to -25 °C (-13 °F) oven temperature with external cooling Up to 420 °C (788 °F) with optional High Temperature Module (EF01-HTM)
Temperature Stability	0.1 °C (0.2 °F)
Sample Volume	1 mL (ASTM D6450), 2 mL (ASTM D7094)
Interfaces	Built-in PC with Ethernet, USB and RS232 interfaces Direct LIMS connectivity and output to printer or PC Optional input by external keyboard, mouse and barcode / QR-code reader
Remote Control	Remote service capability via Ethernet interface
PC Software	ERASOFT RCS - remote control Windows® software for multi-instrument remote control, convenient data transfer and result analysis
Result Database	Over 100 000 detailed test reports stored in internal memory
Alarm Tracking	All alarm messages are stored in the database together with the results
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	30 x 37 x 45 (11.8 x 14.6 x 17.7 in) / 14.5 kg (32 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.

CANNON INSTRUMENT COMPANY®