

THE NEXT ERA

era**flash X**

D7094 FLASH POINT TESTING



eraflash X

Fast.
Safe.
Precise.

ERAFLASH X is the future-proof replacement for ASTM D93 Pensky-Martens testers. Tailored for the petroleum industry all kinds of liquids can be tested over the wide temperature range of 18 °C to 370 °C using only 2 mL of sample. The full compliance with the latest flash point standard ASTM D7094 brings 100% safety, unrivalled speed as well as best in class precision to your laboratory.



Xtra EASY

In contrast to 75 mL for a traditional ASTM D93 Pensky-Martens flash point test, ASTM D7094 requires only 2 mL of sample. Flash point testing with **ERAFLASH X** does not require any special sample preparation and filling and cleaning of the small sample cup is completed in a matter of seconds. Practically no waste of potentially hazardous materials is generated, which leads to significantly lower costs per measurement.

Xtra FAST

ERAFLASH X features **eralytics'** patented PBT – Peltier Boost Technology™, which allows for unrivalled heating and cooling power and a wide temperature range of 18 °C to 370 °C (64 °F to 689 °F). In combination with the small sample volume, significantly shorter turnaround times are achieved compared to all other flash point testers on the market. With **ERAFLASH X**, a typical ASTM D7094 diesel measurement is performed in less than 12 min, which is two times faster than a traditional D93 Pensky-Martens test. This enables up to 5 complete flash point tests per hour with **ERAFLASH X**.

Xtra SAFE

Based on the inherently safe CCCFP design, **ERAFLASH X** measures the flash point through pressure changes inside a continuously closed cup. Instead of an open flame or glowing wire, an electric arc is used as the ignition source, eliminating the risk of fire in your laboratory.

Xtra PRECISE

ERAFLASH X is the most precise flash point tester for all kinds of petroleum liquids. As proven by the latest ASTM interlaboratory flash point study, ASTM D7094-23 offers best in class precision over the widest temperature range and for the widest range of samples.

The ASTM round robin test RR:D02-1581 proofed that “no statistical bias exists between ASTM D93 (Pensky-Martens) and ASTM D7094”.

This led to the acceptance of ASTM D7094 as a valid flash point test method in many fuel specifications:

- Fuel oil (D396)
- Diesel fuel (D975)
- Gas turbine fuel oil (D2880)
- Kerosene (D3699)
- Diesel fuel oil, Biodiesel blend (D7467)

No bias: D93 & D7094

Technical Specifications of eraflash X

Test Methods	ASTM D7094, IP 620
Fuel Specifications	ASTM D396, D975, D2880, D3699, D7467
Speed Tests	Fast screening test programs for non-spec fuels
PBT – Peltier Boost Technology™	High speed heating and cooling
CPT - Contamination Prevention Technology™	Advanced electrode protection and self-cleaning ignition system to minimize cleaning and maintenance
QuickCal™	In-situ calibration with eralytics unique calibration cups without the need of dismantling the instrument
Fuel Dilution Program	Automatic fuel dilution measurement for the analysis of used engine oils
Temperature Range	18 °C to 370 °C (64 °F to 689 °F)
Temperature Stability	0.1 °C (0.2 °F)
Turnaround Time	up to 5 measurements per hour
Sample Volume	2 mL
Reproducibility	R = 3.2 °C for diesel fuel @ 60 °C (ASTM D93: R = 4.3 °C) R = 5.6 °C for lube oil @ 200 °C (ASTM D93: R = 14.2 °C)
Result Database	Over 100 000 detailed test reports stored
PC Software	ERASOFT RCS - Windows® software for convenient data transfer and result analysis
Remote Control	Remote service capability via Ethernet
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
Display	Industry proven 5.7" multilingual color touchscreen
Languages	English, German, French, Spanish, Japanese, Chinese, Additional languages available upon request
Power Requirements	Auto-switching 85 - 264 V, AC 47 - 63 Hz, max 150 W, Field application: optional 12 V DC adapter
Operating Conditions	0 °C to 50 °C, humidity up to 90% RH, non-condensing
Dimensions & Weight	W x D x H = 19.7 x 20.4 x 31.7 (7.7 x 8.0 x 12.5 in); 7.2 kg (15.9 lbs)

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-x



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/distribution

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