

Pensky-Martens

Petrochemical/Flash Point: Pensky-Martens Flash Point Tester: FPM

PRODUCT AT A GLANCE

The FPM provides accurate and secure flash point testing for users seeking to characterize the volatility and flammability of biodiesel fuels, lubricating oils and petroleum products.

Ducom's FPM is an automatic, closed-cup, Pensky-Martens flash point tester. It features an innovative software system, a touchscreen panel PC, automated instrument diagnostics, a state of the art fire detection system and overheating protection.



Test Standard Compliance

The FPM meets and exceeds the following standards and methods:

ASTM Test Methods

ASTM D93

Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester

Procedure A

Applicable to distillate fuels, new and in-use lubricating oils and other homogeneous petroleum liquids.

Procedure B

Applicable to residual fuel oils, cutback residua, used lubricating oils, mixtures of petroleum liquids with solids, and petroleum liquids that tend to form a surface film under test conditions.

Procedure C

Applicable to biodiesel (B100).

DIN, IP, ISO Methods

DIN EN 22719

Petroleum Products and Lubricants - Determination of Flash Point by the Pensky-Martens Closed Cup Method

IP 34

Determination of Flash Point - Pensky-Martens Closed Cup Method

ISO 2719

Determination of Flash Point - Pensky-Martens Closed Cup Method

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KEY FEATURES

- 01 **Integrated Touchscreen Panel PC**
8.4-inch, TFT/LCD, high-resolution display
- 02 **Advanced Safety Features**
Automated diagnostics, fire detection system and overheating protection
- 03 **User-Friendly Software Interface**
Automated, temperature-controlled testing
- 04 **Storage Capacity**
Users can store data files in an Excel-compatible format



TECHNICAL SPECIFICATIONS

MEASURING PARAMETERS

- Temperature: °C/°F
- Measuring Range: 0°C to +420°C
- Resolution: 0.01°C
- Accuracy: $\pm 0.1^\circ\text{C}$
- Repeatability / Reproducibility: as per standard methods or better

TEMPERATURE MEASUREMENT

- Sample Temperature: stainless steel, corrosion and shock-resistant PT100 sensor
- Bath Temperature: PT100 Sensor

DETECTION SYSTEM

- Ionization and thermal detectors combined into one multi-detection system

SAFETY DEVICES

- Automated diagnostics of PT100 probe and thermal sensors
- Automatic fire detection and fire extinguisher systems
- Gas valve closes gas supply (30 mbar max.) at the end of the test

OPERATING RANGE

- Ambient to 35°C
- Max. R.H. 80%

OPERATION

- Stirrer: designed with an electric motor
- Double ignition system: gas and electrical ignitor
- Heater: electrical heating as per ASTM procedures

DIMENSIONS (WxDxH) AND WEIGHT

- 37 x 52 x 32 cm, 30 kg

ELECTRICAL SUPPLY

- 220V $\pm 15\%$ / 50 to 60 Hz
- 115V $\pm 15\%$ / 60 Hz