

## FLASH POINT

### PENSKY-MARTENS

#### ASTM D93 E502 IP 34 EN 22719 ISO 15267 ISO 2719 DIN 51758 FLASH POINT BY PENSKY-MARTENS CLOSED CUP TESTER

This test method covers the determination of the flash point of petroleum products in the temperature range from 40 to 360°C by a manual Pensky-Martens closed-cup apparatus or an automated Pensky-Martens closed-cup apparatus, and the determination of the flash point of biodiesel in the temperature range of 60 to 190°C by an automated Pensky-Martens closed cup apparatus.

Procedure A is applicable to distillate fuels (diesel, biodiesel blends, kerosene, heating oil, turbine fuels), new and in-use lubricating oils, and other homogeneous petroleum liquids not included in the scope of Procedure B or Procedure C.

Procedure B is applicable to residual fuel oils, cutback residues, used lubricating oils, mixtures of petroleum liquids with solids, petroleum liquids that tend to form a surface film under test conditions, or are petroleum liquids of such kinematic viscosity that they are not uniformly heated under the stirring and heating conditions of Procedure A.

Procedure C is applicable to biodiesel (B100). Since a flash point of residual alcohol in biodiesel is difficult to observe by manual flash point techniques, automated apparatus with electronic flash point detection have been found suitable.

Electrically heated by electronic regulator, mounted on a case painted with anti-acid epoxidic products. Calibrated brass test cup, cover with gas or electric ignition device allowing to ignite the testing sample by a manual trip-opening. Motor stirrer for Procedure A, air bath made in brass with external stainless steel calotte, cooling fan.

Technical specifications:

- Temperature: from 40 to 360°C (104 +680°F)
- Power supply: 220V 50/Hz
- Power: 500W
- Dimensions: 40x33x52 cm
- Weight: 11 kg.

#### 750/E PENSKY-MARTENS

With gas ignition

#### 750/E/IE PENSKY-MARTENS

With electric ignition



#### ACCESSORIES / OPTIONAL

10-0748	GAS CYLINDER 2 kg. Empty
10-0749	GAS REDUCER 30 mbar
10-0747	GAS TUBE, L=5 m
10-0751	STAINLESS STEEL TEST CUP
12-0011	MOTOR STIRRER 250 rpm 24V For procedure "B"
T-AS9C	THERMOMETER ASTM 9C IP 15C
T-AS10C	THERMOMETER ASTM 10C IP 16C

#### CONSUMABLES x 2 YEARS

15-0754/PM	ELECTRIC IGNITION x2
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#### SPARE PARTS

15-0750/S	TUBE, L=3 m
15-0751	BRASS TEST CUP
15-0752	COVER WITH MOVEMENT
15-0753/CT	THERMOMETER COLLAR
15-0753/FM	STIRRER FLEXIBLE DRIVE
15-0755	GAS IGNITION
17-0003	TRASFORMER (for 750)
17-0010	TRASFORMER (for 750/IE)
15-0756	FAN
11-0750	HEATER
15-0004	BIPOLAR GREEN SWITCH
15-0005	BIPOLAR YELLOW SWITCH
15-0110	ELECTRONIC REGULATOR
12-0010	MOTOR STIRRER FOR PROCEDURE "A"



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## FLASH POINT

Electrically heated by electronic regulator, mounted on a case painted with anti-acid epoxidic products. Calibrated brass test cup, cover with gas or electrical ignition device allowing to ignite the testing sample by a manual trip-opening. Motor stirrer for Procedure A and B, air bath made in brass with external stainless steel calotte. cooling fan, digital thermometer with glass probe PT100A.

Technical specifications:

- Temperature: from 40 to 360°C (104 +680°F)
- Power supply: 220V 50/Hz
- Power: 700W
- Dimensions: 42x33x52 cm
- Weight: 13 kg.

### **750/BIS DIGITAL PENSKY-MARTENS**

With gas ignition

### **750/BIS/IE DIGITAL PENSKY-MARTENS**

With electrical ignition

### ACCESSORIES / OPTIONAL

10-0748	GAS CYLINDER 2 kg Empty
10-0749	GAS REDUCER 30 mbar
10-0747	GAS TUBE, L=5 m
10-0751	STAINLESS STEEL TEST CUP

### CONSUMABLES x 2 YEARS

15-0754/PM	ELECTRIC IGNITOR x2
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### SPARE PARTS

15-0750/S	TUBE L=3 m
15-0751	BRASS TEST CUP
15-0752	COVER WITH MOVEMENT
15-0753/CS	PROBE COLLAR
15-0753/FD	STIRRER FLEXIBLE DRIVE
15-0754/I	3-WAY SWITCH
15-0755	GAS IGNITION
17-0003	TRASFORMER (for 750/BIS)
17-0010	TRASFORMER (for 750/BIS/IE)
15-0756	FAN
11-0750	HEATER
15-0004	BIPOLAR GREEN SWITCH
15-0005	BIPOLAR YELLOW SWITCH
15-0110	ELECTRONIC REGULATOR
16-0005	DIGITAL THERMOMETER
14-0007	GLASS PT100A PROBE



750/BIS

2012

## FLASH POINT

Apparatus with automatic temperature ramp, flash sensor, glass PT100, electrical and gas ignition system, ramp precision of 0.1°C, Real time operating system with S.D.M. software application, network connection and remote control of the instrument, 2xUSB host+client ports, serial RS232 port, USB, ethernet and serial printer with PCL support, Custom method, ramp and setpoint test procedure, TFT touch screen display with 800x480 screen resolution. Dual scale with °C and °F of choice, Tested with certified product: FPRM2D with  $\pm 0.1^\circ\text{C}$  precision. Friendly and easy to use application. Predefined ASTM D93 A, B and C procedure. Smart sense of flash point using vapor charge value. Safe use and diagnostics of the components and sensors. Over 500.000 guarantee test results memory, long life electric igniter.

The automatic version, 750/AUT model, is supplied with a automatic sensor for flash point and atmospheric pressure sensor with  $\pm 0.1$  Kpa precision

Technical specifications:

- Temperature: da 40 a 360°C
- Power supply: 220V 50Hz
- Power: 800W
- Dimensions: 33X46X57 cm
- Weight: 26 kg

### **750/SEM PENSKY-MARTENS SEMI-AUTOMATIC**

Without automatic flash point sensor and atmospheric pressure sensor

### **750/AUT PENSKY-MARTENS AUTOMATIC**

With automatic flash point sensor and atmospheric pressure sensor



### **ACCESSORIES / OPTIONAL**

10-0748	GAS CYLINDER 2 kg Empty
10-0749	GAS REDUCER 30 mbar
10-0747	GAS TUBE, L=5 m
10-0751	STAINLESS STEEL TEST CUP
14-0007/C	GLASS PT100 PROBE CERTIFIED

### **CONSUMABLES x 2 YEARS**

15-0754/PM	ELECTRIC IGNITOR x2
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### **SPARE PARTS**

15-0750/S	TUBE, L=3 m
15-0751	BRASS TEST CUP
15-0752/AUT	COVER WITH MOVEMENT
15-0753/CS	PROBE COLLAR (only for 750/SEM)
15-0753/FA	STIRRER FLEXIBLE DRIVE
15-0755	GAS IGNITION
17-0010	TRANSFORMER
15-0756	FAN
15-0757/C	IONIZATION CABLE
15-0757/D	IONIZATION DETECTION
11-0750	HEATER
15-0004	BIPOLAR GREEN SWITCH
14-0007	GLASS PT100A PROBE

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