



| **Pensky-Martens mod. 750/750DIG**

## ASTM D93 FLASH POINT BY PENSKY-MARTENS CLOSED CUP TESTER

These test methods cover the determination of the flash point of petroleum products in the temperature range from 40 °C to 370 °C (104 to 698°F) by a manual Pensky-Martens closed-cup apparatus or an automated Pensky-Martens closed-cup apparatus.

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

Procedure B is applicable to residual fuel oils, cutback residua, 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.

## ASTM E502 SELECTION AND USE OF ASTM STANDARDS FOR THE DETERMINATION OF FLASH POINT OF CHEMICALS BY CLOSED CUP METHODS

This test method covers the determination of the flash point of liquid and solid chemical compounds flashing from below -10 to 370°C (16 to 700°F). The procedures and apparatus in Test Methods D56, D93, D3278, D3828, and D3941 are to be used.

## IP 34 FLASH POINT BY PENSKY-MARTENS CLOSED CUP TESTER

## EN 22719 DETERMINATION OF FLASH POINT BY THE PENSKY-MARTENS CLOSED CUP METHOD

## ISO 2719 DETERMINATION OF FLASH POINT — PENSKY-MARTENS CLOSED CUP METHOD

## ISO 15267 ANIMAL AND VEGETABLE FATS AND OILS — FLASHPOINT LIMIT TEST USING PENSKY-MARTENS CLOSED CUP FLASH TESTER

Animal and vegetable fats and oils — Flashpoint limit test using Pensky-Martens closed cup flash tester.

## DIN 51758 TESTING OF LIQUID PETROLEUM PRODUCTS AND OTHER COMBUSTIBLE LIQUIDS; DETERMINATION OF FLASH POINT BY PENSKY-MARTENS CLOSED TESTER

### DESCRIPTION

A brass test cup of specified dimensions, filled to the inside mark with test specimen and fitted with a cover of specified dimensions, is heated and the specimen stirred at specified rates, using one of three defined procedures (A, B, or C). An ignition source is directed into the test cup at regular intervals with simultaneous interruption of the stirring, until a flash is detected.

Electrically heated by electronic regulator, mounted on a case painted with antacid epoxy products. Calibrated brass test cup, cover with gas and electric ignition device allowing to ignite the testing sample by a manual trip-opening. Motor stirrer for procedure "A" and "B", air bath and cooling fan.

Technical specifications:

- Temperature: from 35 to 370°C (95 +698°F)
- Power supply: 230V ±10% 50/60Hz
- Power: 700W
- Dimensions: 40x33x52 cm
- Weight: 11 kg

### P/N 750 PENSKY-MARTENS

750



### ACCESSORIES ON REQUEST

#### 10-0747 GAS TUBE

For LPG, l=5 m

#### 10-0748 GAS CYLINDER

Empty, 2 kg

#### 10-0749 GAS REDUCER

30 mbar

#### 10-0751 STAINLESS STEEL TEST CUP

#### T-AS9C/B THERMOMETER ASTM 9C IP 15C

Scale -5 +110°C, div.0,5°, imm.57 mm, l=295 mm, blue liquid

#### T-AS10C/G THERMOMETER ASTM 10C IP 16C

Scale 90 +370°C, div.2°, imm.57 mm, l=290 mm, gallium liquid

#### T-AS88C/G THERMOMETER ASTM 88C IP 101C

Scale 10 +200°C, div.1°, imm.57 mm, l=287 mm, gallium liquid

### CONSUMABLES

#### 15-CAN/IE ELECTRIC IGNITION

### SPARE PARTS

#### 15-0751 BRASS TEST CUP

#### 15-0752 COVER WITH MOVEMENT

#### 15-TUBSIL/24 SILICONE TUBE

L=3 m

#### 15-0753/CT THERMOMETER COLLAR

#### 15-0753/FM STIRRER FLEXIBLE DRIVE

#### 15-0754 PILOT FLAME

#### 15-0755 GAS IGNITION

#### 15-VEN120 COOLING FAN

#### 11-0750 HEATER 600W

#### 15-0004 BIPOLAR GREEN SWITCH

#### 15-0005 BIPOLAR YELLOW SWITCH

#### 15-0006 PUSH BUTTON

#### 15-0012 3-WAY SWITCH

#### 15-ALIM60/12 POWER SUPPLY 12VDC 60W

#### 15-0110 ELECTRONIC REGULATOR

#### 12-0750/MOT GEARED MOTOR



10-0751

## DESCRIPTION

A brass test cup of specified dimensions, filled to the inside mark with test specimen and fitted with a cover of specified dimensions, is heated and the specimen stirred at specified rates, using one of three defined procedures (A, B, or C). An ignition source is directed into the test cup at regular intervals with simultaneous interruption of the stirring, until a flash is detected.

Electrically heated by electronic regulator, mounted on a case painted with antacid epoxy products. Calibrated brass test cup, cover with gas and electric ignition device allowing to ignite the testing sample by a manual trip-opening. Motor stirrer for procedure "A" and "B", digital thermometer with PT100A probe, air bath and cooling fan.

Technical specifications:

- Temperature: from 35 to 370°C (95 +698°F)
- Power supply: 230V ±10% 50/60Hz
- Power: 700W
- Dimensions: 40x33x52 cm
- Weight: 13 kg

**P/N**  
750/DIG DIGITAL PENSKY-MARTEN



750/DIG

## ACCESSORIES ON REQUEST

10-0747 GAS TUBE

For LPG, l=5 m

10-0748 GAS CYLINDER

Empty, 2 kg

10-0749 GAS REDUCER

30 mbar

10-0751 STAINLESS STEEL TEST CUP

## CONSUMABLES

15-CAN/IE ELECTRIC IGNITION

## SPARE PARTS

15-0751 BRASS TEST CUP

15-0752 COVER WITH MOVEMENT

15-TUBSIL/24 SILICONE TUBE

L=3 m

15-0753/CS PROBE COLLAR

15-0753/FM STIRRER FLEXIBLE DRIVE

15-0754 PILOT FLAME

15-0755 GAS IGNITION

15-VEN120 COOLING FAN

11-0750 HEATER 600W

14-0009 PROBE PT100A

16-0005 DIGITAL THERMOMETER

15-0004 BIPOLAR GREEN SWITCH

15-0005 BIPOLAR YELLOW SWITCH

15-0006 PUSH BUTTON

15-0012 3-WAY SWITCH

15-ALIM60/12 POWER SUPPLY 12VDC 60W

15-0110 ELECTRONIC REGULATOR

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10-0748



10-0749



15-0751



15-CAN/IE



15-0752



