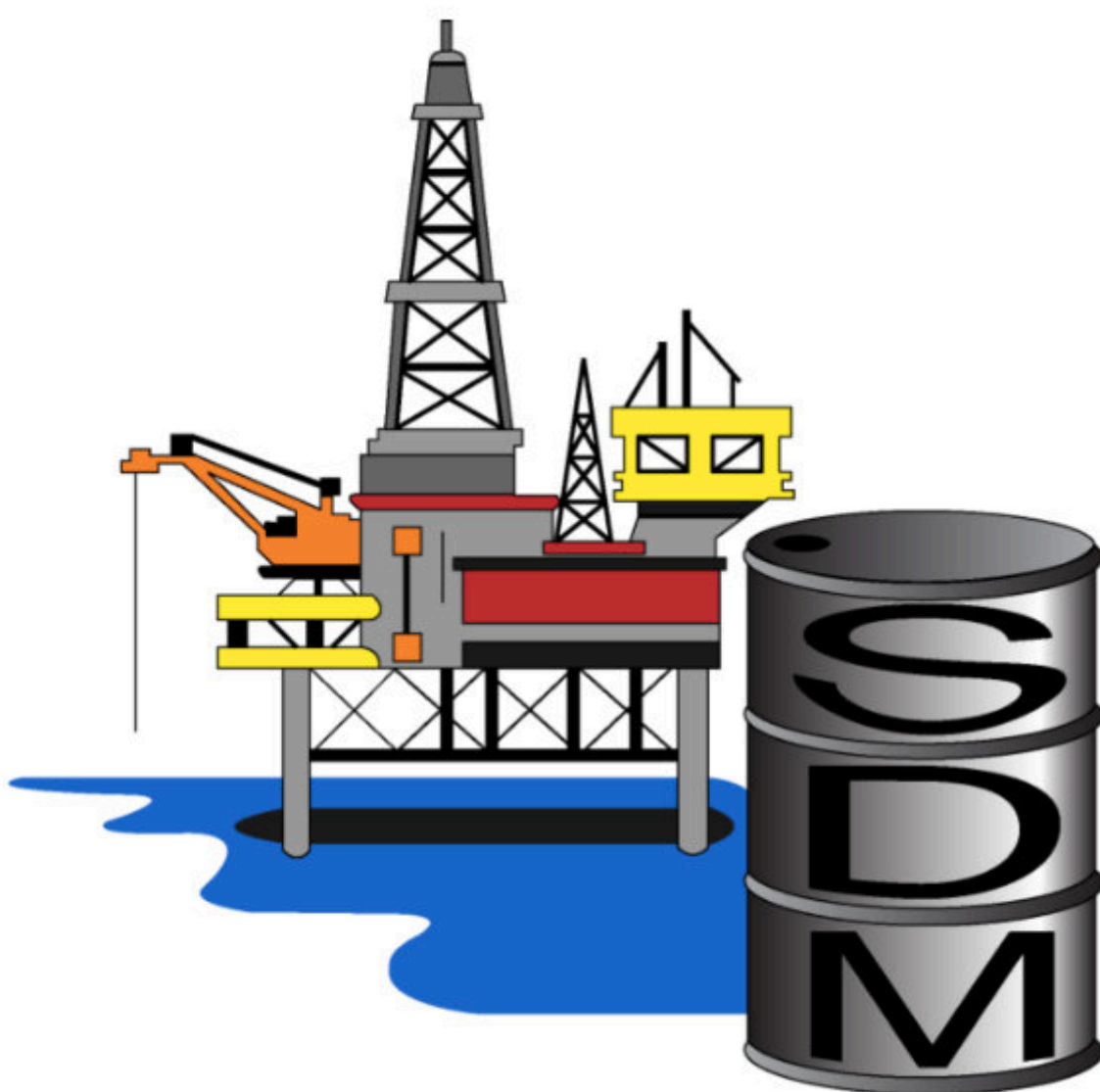


S.D.M.[®] FLASH POINT 2020



With this catalogue we are pleased to present our line of viscosity laboratory instruments conforming to ASTM IP EN ISO DIN and related international methods and furthermore custom solutions on your request.

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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 40 to 360°C (104 +680°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

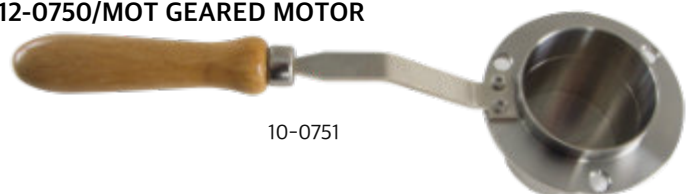
15-0006 PUSH BUTTON

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 40 to 360°C (104 +680°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

12-0750/MOT GEARED MOTOR



10-0748



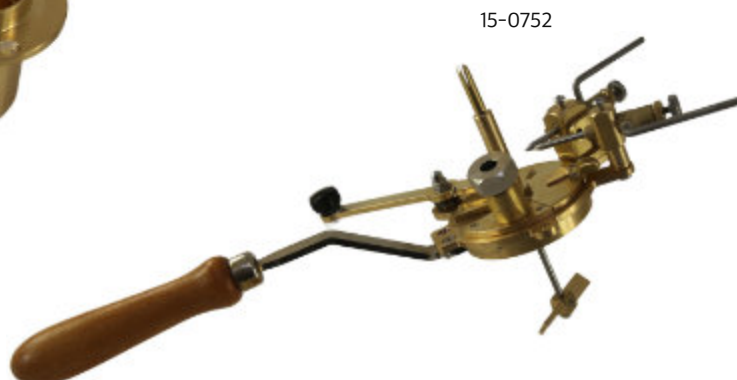
10-0749



15-CAN/IE



15-0751



15-0752

IP 170 DETERMINATION OF FLASH POINT - ABEL CLOSED-CUP METHOD

For the determination of the closed-cup flash point of combustible liquids having flash points between -30°C and 70°C, inclusive. However, the precision given for this method is only valid for flash points in the range -5°C to 66,5°C.

ISO 13736 DETERMINATION OF FLASH POINT - ABEL CLOSED-CUP METHOD

For the determination of the manual and automated closed-cup flash point of combustible liquids having flash points between -30°C to 75°C. However, the precision given for this method is only valid for flash points in the range -8,5°C to 75°C

DESCRIPTION

The test portion is placed in the test cup of an Abel apparatus and heated to give a constant temperature increase with continuous stirring. An ignition source is directed through an opening in the test cup cover at regular temperature intervals with simultaneous interruption of stirring. The lowest temperature at which application of the ignition source causes the vapors of the test portion to ignite and propagate over the surface of the liquid is recorded as the flash point at the ambient barometric pressure. The temperature is corrected to standard atmospheric pressure using an equation.

Electrically heated by electronic regulator, mounted on a case painted with antacid epoxy products. Calibrated brass crucible, cover with gas and electric ignition device allowing to ignite the testing sample by a manual glide-opening. Motor stirrer, air bath and water bath are made in chromium-plated copper, internal cooling coil with external connection for possible cooling bath.

Technical specifications:

- Temperature: from ambient to 70°C (158°F) (up to -30°C (-22°F) (with external unit)
- Power supply: 230V ±10% 50/60Hz
- Power: 300W
- Dimensions: 26x32x37 cm
- Weight: 7 kg

P/N
820 ABEL

820



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

10-0821 STAINLESS STEEL TEST CUP

T-IP74C/B THERMOMETER IP 74C

Scale -35 +70°C, div.0,5°, imm.61 mm, l=310 mm, blue liquid

T-IP75C/B THERMOMETER IP 75C

Scale -30 +80°C, div.0,5°, imm.89 mm, l=310 mm, blue liquid

T-IP2C/T THERMOMETER IP2C

Scale -80 +20°C, div.1°, imm.76 mm, l=230 mm, Thallium liquid

CONSUMABLES

15-CAN/IE ELECTRIC IGNITION

SPARE PARTS

15-0821 BRASS TEST CUP

15-0822 COVER WITH MOVEMENT

15-TUBSIL/24 SILICONE TUBE

L=3 m

15-0824/FM STIRRER FLEXIBLE DRIVE

11-0820 HEATER 300W

15-0004 BIPOLAR GREEN SWITCH

15-0005 BIPOLAR YELLOW SWITCH

15-0006 PUSH BUTTON

15-ALIM60/12 POWER SUPPLY 12VDC 60W

15-0110 ELECTRONIC REGULATOR

12-0820 GEARED MOTOR

ASTM D56 FLASH POINT BY TAG CLOSED CUP TESTER

This test method covers the determination of the flash point, by tag manual and automated closed testers, of liquids with a viscosity below 5.5 mm²/s (cSt) at 40°C (104°F), or below 9.5 mm²/s (cSt) at 25°C (77°F), and a flash point below 93°C (200°F).

IP 491 ISO 1516 DETERMINATION OF FLASH/NO FLASH - CLOSED CUP EQUILIBRIUM METHOD

Method to determine if paints, varnishes, paint binders, solvents, petroleum or related products, when maintained at a selected equilibrium temperature and under the conditions of the test, give off sufficient flammable vapor to cause ignition on application of an external source of flame applied in a standard manner.

Is suitable for use over the temperature range -30°C to 110°C.

IP 492 ISO 1523 DETERMINATION OF FLASH POINT - CLOSED CUP EQUILIBRIUM METHOD

Defines a method to determine the flash point of paints, varnishes, paint binders, solvents, petroleum or related products. The method is suitable for use over the temperature range - 30°C to 110°C

ASTM D3934 FLASH/NO FLASH TEST-EQUILIBRIUM METHOD BY A CLOSED-CUP APPARATUS

This test method covers the determination of whether a liquid complies with the closed-cup flash point requirements in government regulations, or in specifications, or as agreed between the purchaser and the seller.

This test method is limited to a temperature range between 0 and 110°C (32 and 230°F).

ASTM D3941 FLASH POINT BY THE EQUILIBRIUM METHOD WITH A CLOSED-CUP APPARATUS

This test method covers the determination of the flash point of liquids in which the specimen and the air/vapor mixture above it are approximately in temperature equilibrium.

This test method is limited to a temperature range from 0 to 110°C (32 to 230°F).

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.

DESCRIPTION

The specimen is placed in the cup of the tester and, with the lid closed, heated at a slow constant rate. An ignition source is directed into the cup at regular intervals. The flash point is taken as the lowest temperature at which application of the ignition source causes the vapor above the specimen to ignite.

Electrically heated by electronic regulator, mounted on a case painted with antacid epoxy products. Test cup equipped with glide device and gas or electrical ignition. Water bath and support-jacket made in brass. With internal cooling coil.

Technical specifications:

- Temperature: from ambient to 110°C (230°F) (up to -30°C (-22°F) with external unit)
- Power supply: 230V ±10% 50/60Hz
- Power: 700W
- Dimensions: 18x20x20 cm
- Weight: 6 kg

P/N
930 TAG CLOSED



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

T-AS57C/B THERMOMETER ASTM 57C

Scale -20 +50°C, div.0,5°, imm.57 mm, l=292 mm, blue liquid

T-AS9C/B THERMOMETER ASTM 9C

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

CONSUMABLES

15-CAN/IE ELECTRIC IGNITION

SPARE PARTS

15-0932 BRASS TEST CUP

Pack of 2 pcs

15-0933 COVER WITH MOVEMENT

15-0935 WATER BATH WITH COOLING COIL

15-TUBSIL/24 SILICONE TUBE

L=3 m

11-0022 HEATER 700W

15-0004 BIPOLAR GREEN SWITCH

15-0006 PUSH BUTTON

15-ALIM60/12 POWER SUPPLY 12VDC 60W

15-0110 ELECTRONIC REGULATOR

SMALL SCALE CLOSED-CUP P/N 780 FLASH POINT

ASTM D3278 FLASH POINT OF LIQUIDS BY SMALL SCALE CLOSED-CUP

These test methods cover procedures for determining whether a material does or does not flash at a specified temperature or for determining the lowest finite temperature at which a material does flash when using a small scale closed-cup apparatus. The test methods are applicable to paints, enamels, lacquers, varnishes, and related products having a flash point between 0 and 110°C (32 and 230°F) and viscosity lower than 150 St at 25°C (77°F).

IP 534 DETERMINATION OF FLASH POINT - SMALL SCALE CLOSED CUP RAMP METHOD

This standard specifies a test method for the determination of the closed cup flash point of solvents, kerosine, aviation turbine fuel, diesel fuel and related products that are homogeneous and liquid at or near ambient temperature and at temperatures required to perform the test, having flash points within the range of -20°C to 300°C. However the precision given by this method is only valid for flash points in the range 40°C to 135°C.

ASTM D3828 FLASH POINT BY SMALL SCALE CLOSED CUP TESTER

This test method cover procedures for flash point tests, within the range of -30 to 300°C, of petroleum products and biodiesel liquid fuels, using a small scale closed cup tester. The procedures may be used to determine, whether a product will or will not flash at a specified temperature (flash/no flash Method A) or the flash point of a sample (Method B).

ASTM D7236 FLASH POINT BY SMALL SCALE CLOSED CUP TESTER (RAMP METHOD)

This test method covers the determination of the flash point of aviation turbine fuel, diesel fuel, kerosine and related products in the temperature range of 40 to 135°C by a small scale closed cup apparatus.

Is only applicable to homogeneous materials that are liquid at or near ambient temperature and at temperatures required to perform the test. Is not applicable to liquids contaminated by traces of highly volatile materials.

Is a dynamic method and depends on a definite rate of temperature increase. It is one of many flash point methods available, and every flash point test method, including this one, is an empirical one. If the user's specification requires a defined flash point method, neither this test nor any other method should be substituted for the prescribed method without obtaining comparative data and an agreement from the specifier.

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 303 (obs)

IP 523 ISO 3679 DETERMINATION OF FLASH POINT - RAPID EQUILIBRIUM CLOSED CUP METHOD

IP 524 ISO 3680 DETERMINATION OF FLASH/NO FLASH - RAPID EQUILIBRIUM CLOSED CUP METHOD

DESCRIPTION

By means of a syringe, 2 mL of the sample is introduced through a leakproof entry port into the tightly closed small scale closed-cup apparatus or directly into the cup that has been brought to the required test temperature. As a flash/no flash test, the expected flash point temperature may be a specification or other operating requirement. After 1 min, a test flame is applied inside the cup and note is taken whether or not the test specimen flashes. A fresh specimen must be used if a repeat test is necessary.

For a finite flash point measurement, the temperature is sequentially increased through the anticipated range, the test flame being applied at 5°C (9°F) intervals until a flash is observed. A true determination is then made using a fresh specimen, starting the test at the temperature of the last interval before the flash point of the material and making tests at increasing 0.5°C (1°F) intervals.

Electrically heated by electronic regulator, mounted on a case painted with antacid epoxy products. Aluminum block for 2 and 4 ml samples, cover with manual opening system, gas ignition with pilot flame, digital thermometer with PT100A probe.

Thermal insulating with cooling coil for circulation of cooling fluid with optional cryostat.

Technical specifications:

- Temperature: from ambient to 300°C (572°F) (up to -10°C (14°F) with external unit)
- Power supply: 230V ±10% 50/60Hz
- Power: 700W
- Dimensions: 29x33x30 cm
- Weight: 10 Kg

P/N

780 SMALL SCALE FLASH POINT

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

SPARE PARTS

15-TUBSIL/24 SILICONE TUBE

L=3 m

11-0022 HEATER 700W

14-0001 PROBE PT100A

16-0005 DIGITAL THERMOMETER

15-0004 BIPOLAR GREEN SWITCH

15-0110 ELECTRONIC REGULATOR



780

ASTM D92 IP 36 EN 22592 (obs.) ISO 2592 DIN 51376 (obs) FLASH AND FIRE POINTS BY CLEVELAND OPEN CUP TESTER
This test method is applicable to all petroleum products with flash points above 79°C (175°F) and below 400°C (752°F) except fuel oils.

DESCRIPTION

Approximately 70 mL of test specimen is filled into a test cup. The temperature of the test specimen is increased rapidly at first and then at a slower constant rate as the flash point is approached. At specified intervals a test flame is passed across the cup. The flash point is the lowest liquid temperature at which application of the test flame causes the vapors of the test specimen of the sample to ignite. To determine the fire point, the test is continued until the application of the test flame causes the test specimen to ignite and sustain burning for a minimum of 5 s. Electrically heated by electronic regulator, mounted on a case painted with antacid epoxy products. Calibrated brass cup, gas ignition device fitted with a pivot manually passing on the cup. Fitted with pincers for thermometer.

Technical specifications:

- Temperature: from 79 to 400°C (from 175 to 752°F)
- Power supply: 230V ±10% 50/60Hz
- Power: 700W
- Dimensions: 29x33x30 cm
- Weight: 8 kg

P/N
880 CLEVELAND

ACCESSORIES ON REQUEST

- 10-0747 GAS TUBE
- 10-0748 GAS CYLINDER 2 kg
- 10-0749 GAS REDUCER 30 mbar
- T-AS11C/G THERMOMETER ASTM 11C IP 28C
Scale -6 +400°C, div.2°, imm.25 mm, l=310 mm, gallium liquid

SPARE PARTS

- 15-TUBSIL/24 SILICONE TUBE
L=3 m
- 15-0881 BRASS TEST CUP
- 15-0882 CENTERING RING FOR TEST CUP
- 15-0883 TEST FLAME APPLICATOR
- 15-0889 CLAMP FOR THERMOMETER
- 11-0022 HEATER 700W
- 15-0004 BIPOLAR GREEN SWITCH
- 15-0110 ELECTRONIC REGULATOR

880



15-0881

DESCRIPTION

Approximately 70 mL of test specimen is filled into a test cup. The temperature of the test specimen is increased rapidly at first and then at a slower constant rate as the flash point is approached. At specified intervals a test flame is passed across the cup. The flash point is the lowest liquid temperature at which application of the test flame causes the vapors of the test specimen of the sample to ignite. To determine the fire point, the test is continued until the application of the test flame causes the test specimen to ignite and sustain burning for a minimum of 5 s. Electrically heated by electronic regulator, mounted on a case painted with antacid epoxy products. Calibrated brass cup, gas ignition device fitted with a pivot automatic passing on the cup every 20 seconds or manually by acting on a switch. Fitted with pincers for thermometer.

Technical specifications:

- Temperature: from 79 to 400°C (from 175 to 752°F)
- Power supply: 230V ±10% 50/60Hz
- Power: 700W
- Dimensions: 29x33x30 cm
- Weight: 8 kg

P/N
890 CLEVELAND

ACCESSORIES ON REQUEST

- 10-0747 GAS TUBE
- 10-0748 GAS CYLINDER 2 kg
- 10-0749 GAS REDUCER 30 mbar
- T-AS11C/G THERMOMETER ASTM 11C IP 28C
Scale -6 +400°C, div.2°, imm.25 mm, l=310 mm, gallium liquid

SPARE PARTS

- 15-TUBSIL/24 SILICONE TUBE
L=3 m
- 15-0881 BRASS TEST CUP
- 15-0882 CENTERING RING FOR TEST CUP
- 15-0883 TEST FLAME APPLICATOR
- 15-0889 CLAMP FOR THERMOMETER
- 11-0022 HEATER 700W
- 15-0004 BIPOLAR GREEN SWITCH
- 15-0005 BIPOLAR YELLOW SWITCH
- 15-0012 3-WAY SWITCH
- 16-0021 TIMER
- 15-0110 ELECTRONIC REGULATOR

890



15-0883



15-0882



15-0889



ASTM D1310 FLASH POINT AND FIRE POINT OF LIQUIDS BY TAG OPEN-CUP APPARATUS

This test method covers the determination by Tag Open-Cup Apparatus of the flash point and fire point of liquids having flash points between -18 and 165°C (0 and 325°F) and fire points up to 325°F.

This test method, when applied to paints and resin solutions that tend to skin over or that are very viscous, gives less reproducible results than when applied to solvents.

ASTM D3143 FLASH POINT OF CUTBACK ASPHALT

This test method covers the determination of flash points by the Tag Open-Cup Apparatus of cutback asphalts having flash points of less than 93°C (200°F).

DESCRIPTION

The sample is placed in the cup of the tester and heated at a slow but constant rate. A small test flame is passed at a uniform rate in a level plane across the cup at specified intervals. The flash point is the lowest temperature at which application of the test flame causes the vapor at the surface of the liquid to flash.

Electrically heated by electronic regulator, mounted on a case painted with antacid epoxy products. Test cup made in moulded glass, gas ignition device with pivot passing manually over the cup.

This item has a water bath fitted with pincers for thermometer.

Technical specifications:

- Temperature: from ambient 180°C (356°F)
- Power supply: 230V ±10% 50/60Hz
- Power: 700W
- Dimensions: 26x20x33 cm
- Weight: 8 kg

P/N
950 TAG OPEN

ACCESSORIES ON REQUEST

10-0747 GAS TUBE

10-0748 GAS CYLINDER 2 kg

10-0749 GAS REDUCER 30 mbar

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

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

T-AS33C/B THERMOMETER ASTM 33C IP 20C

Scale -38 +42°C, div.0,2°, imm.50 mm, l=425 mm, blue liquid

T-AS35C/B THERMOMETER ASTM 34C IP 21C

Scale 25 +105°C, div.0,2°, imm.50 mm, l=425 mm, blue liquid

T-AS35C/B THERMOMETER ASTM 35C IP 59C

Scale 90 +170°C, div.0,2°, imm.50 mm, l=425 mm, blue liquid

SPARE PARTS

15-TUBSIL/24 SILICONE TUBE

L=3 m

15-0951 GLASS CUP

Pack of 2 pcs

15-0953 WATER BATH CUP

15-0952 TEST FLAME APPLICATOR

15-0889 CLAMP FOR THERMOMETER

11-0022 HEATER 700W

15-0004 BIPOLAR GREEN SWITCH

15-0110 ELECTRONIC REGULATOR

