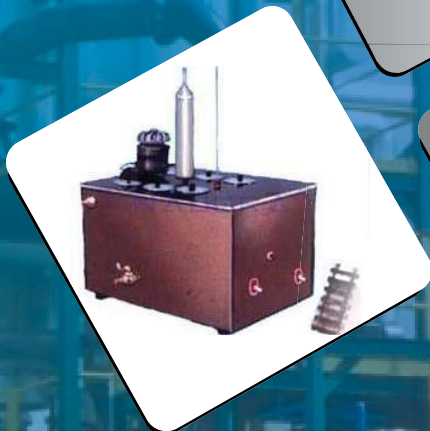


OIL & PETROLIUM INSTRUMENTS



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Oil & Petroleum Instruments

Abels Flash Point Apparatus (60006001)

Used for determining of the closed cup Flash point of Petroleum Products, their mixtures, others liquids & Paints having Flash Point below 70°C. The apparatus consists of one brass cup and cover fitted with shutter mechanism test flame arrangement (Oil test jet or Gas test jet) and stirrer, placed on a water bath made of stainless sheet double walled. The outer jacket of the water bath is fitted with a stand. For electrically heated apparatus, heater is fitted to the stand the heat of which may be controlled different temperature regulation system of operated on 220 Volts AC mains. For Gas heated model the drum is heated by a burner. (without burner).



Abels Flash Point Apparatus

Bomb Calorimeter Apparatus (60006002)



Bomb Calorimeter Apparatus

Bomb Calorimeter Outfit provide a simple and inexpensive method for determination of heat of combustion of organic matter and the calorific value & sulphur content of solid & liquid fuel. The outfit supplied is complete for analysis as per the method recommended by British Standard Institution. All parts of the outfit have been finished and tested according to the specification laid down by Institute of petroleum and British Standard Institute. It comes with all essential accessories like, Bomb, Calorimeter vessel with bomb support, water jacket, stirrer, electronic firing unit with digital backman thermometer etc

Carbon Residue Apparatus (Conradson) (60006003)

It is used to determine the amount of carbon deposit when an oil is evaporated under specified condition. The Carbon residue values of crude oil, residue etc. are useful in the manufacture of various lubricants. The Apparatus consists of Spun Sheet Iron Crucible 25cc capacity, sheet iron hood and sheet iron block on a stand with triangular wire bridge.



Carbon Residue Apparatus (Conradson)

Rams Bottom (60006004)

It is used to determine the amount of Carbon deposit when an oil is evaporated under specified condition. The apparatus consists of a solid metal bath having 6 walls to accommodate cocking bulbs with heating elements around the bath the temperature which may be controlled by a Pyrometer depending upon the type supplied, 6 cocking bulbs are supplied with apparatus.

Rams Bottom



Oil & Petroleum Instruments

Cleaveland Flash & Fire Point Apparatus (60006005)

The Apparatus is used for determination of Flash Point & Fire Point of Petroleum products except fuel oil with open flash 400°C specification. The apparatus consists of a cup heating plate to specific dimensions thermometer clip and test flame attachment with swivel joint for passing over liquid's Fire Point Appurface in the prescribed manner, heater is controlled by means of different types of regulators fitted to the apparatus suitable for operation on 220 Volts AC mains.



Cleaveland Flash & Fire Point Apparatus

Cloud And Pour Point Apparatus (60006006)



Cloud And Pour Point Apparatus

This is made as a specified the pour point is the lowest temperature at which the oil will just fail to flow. The apparatus consists of a main cooling bath made of stainless steel sheet and stand unit with drain plug and cover with provision for fitting thermometer and a filling aperture for adding freezing mixture. A glass jar for containing oils, jacket, disc and gasket as specified are also provided.

Copper Strip Corrosion Test Apparatus (60006007)

Used for detecting the presence of corrosive sulphur in petroleum products. The apparatus consists of a bath either dual purpose (500C & 1000C) or a boiling bath (1000C only) without stainless steel bomb and copper strips of definite size 6 bombs or 18 test tubes can be accommodate in each type of bath with different temperature regulation system to operate on 220 volts AC mains.



Copper Strip Corrosion Test Apparatus

Distillation Apparatus (60006008)



Distillation Apparatus

Made in accordance with specifications, determination of distillation characteristic of Petroleum Products. The instrument consists of metal shield fitted with asbestos board to support distillation flask with GEARED height adjustable device. It has slide for vapour tube and lining having glass window for Clear view of inside objects. The condenser bath is provided with Mild Steel black painted stand (without glasswares) electrically operated on 220 volts AC mains.



Oil & Petroleum Instruments

Drop Point Apparatus (60006009)

This is used for determining drop point of greases . It is an indication of the critical temperature of the solid or semi solid to the liquid state. The apparatus consists of brass sleeve and case with metal cup and a glass boiling tube with cork fitted to a bath (Beaker) is provided . A stirrer is also provided in the bath.

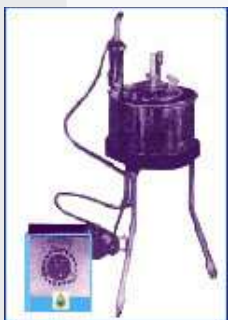
- Drop Point Apparatus hand operated stirrer
- Drop Point Apparatus with FHP Motorised stirrer and electrical heater with energy regulator control IP-31
- Same as above electric heated by concealed hot plate.
- Drop Point Apparatus with FHP Motorised stirrer and electrical heater with energy regulator control IP-132.
- Same as above electric heated by concealed Hot Plate.

Optional Accessories:

- Thermometer 40C Low range.
- Thermometer 41C High Range.
- Thermometer 62C Drop Point Special.
- Universal Heater
- Spare Concealed Hot Plate.



Drop Point Apparatus



Engler Viscometer Apparatus

Engler Viscometer Apparatus (60006010)

Used for determining the Viscosity of lubricating and fuel oils in accordance with continental emulsions.

It consists of Stainless steel water bath having oil cup with double walled lid. The water bath with stirring device mounted on stand . A thermometer clip to the water bath and the oil cup lid has a thermometer socket. The bath is fitted with 500 watts heater . It is supplied with wooden or ebonite valve to fit jet (without glaswares). Can operate on 220 Volts AC mains.

- Engler Viscometer Gas Heated Modal Without burner.
- Engler Viscometer Electric heated without any control.
- Engler Viscometer electric heated with separate energy regulator control.
- Engler Viscometer electric heated with copper coil type voltage varric.
- Engler Viscometer electric heated with digital temperature controller cum indicator.

Optional Accessories:

- Ebonite or wooden valve
- Flask 200ml capacity
- Polished wooden case.

Thermometer 23C or 24C or 25C any one.



Oil & Petroleum Instruments

Kinematic Viscometer Bath (60006011)

This Viscometer bath is used to maintain the correct constant temperature for estimating Kinematic Viscosity of Oil and Petroleum Products in this type of bath various viscometers may be fixed as an internal part of the bath. The bath is rectangular shape. Inside tank is made of Stainless Steel Sheet. Two sides toughed glass window provided for full visibility of objects inside the bath. The bath is controlled by an electronic relay and contact Thermometer Or Digital Temperature controller cum indicator. Temperature range 50°C above room temperature to 100°C. Accuracy plus minus 0.10°C. Stirring is done by a FHP electric motor stirrer. Heating is done by means of tubular type heater fitted on top of the bath. It is supplied with viscometer tube holders and stainless steel cover. Different size & accommodation are available as under without Viscometer tube.



Kinematic Viscometer Bath



Melting Point Apparatus

Melting Point Apparatus. (60006012)

This Apparatus determines melting point of petroleum products. It is made according to IT. It consists of a rectangular block of aluminium with built-in electric heating element. The temperature is controlled by an energy regulator. An adjustable lens is provided for viewing exact melting point supplied with capillaries.

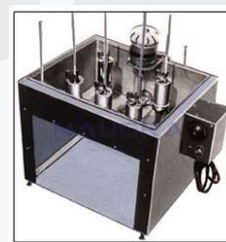
- Melting point Apparatus with energy regulator control
- Thermometer 63°C.

Multiple Redwood Viscometer Apparatus (40004010)

Made of stainless steel bath big enough to accommodate 3 cups Redwood No.1 and 2 cups of Redwood No. II. Stirring is done by a FHP electric motor in the bath. It is supplied complete with 5 Oil cups fitted with Precision jets of Stainless Steel. Temperature is controlled by Energy Regulator.

Optimal Accessories For Red Wood Viscometer No. I, II & Multiple Red Wood Viscometer:

- 8°C Low range Thermometer.
- 9°C Medium range Thermometer.
- 10°C High range Thermometer.
- Flask receiver 50 ml capacity.
- Polished carrying wooden case for Redwood No. I.
- Temperature regulator (Energy regulator).
- Spare cup with valve for Redwood No. I.
- Spare cup with valve for Redwood No. II.
- Polished carrying wooden case for Redwood No. II.
- Spare Heater for Redwood No. I.
- Spare Heater for Redwood No. II.
- Spare Ball valve for Redwood No. I & II.



Multiple Redwood Viscometer Apparatus



Oil & Petroleum Instruments

Penetrometer Apparatus (60006014)

This apparatus is used for penetration test on a wide variety of materials such as grease, Petroleum, Bitumen, Tar, Wax, Polish, food stuff, Rubber asphalts and pharmaceuticals Creams. A given force is applied over a given of a millimeter and expressed as penetration. It consists of a head support mounted on a vertical rod which can be adjusted for height. A rack and pinion and pointer assembly provides fine adjustment of a needle tip to sample and incorporates a slipping clutch mechanism which make reading of Penetration and subsequent resetting of a sample and accurate operation. The dial is graduated from 0-400 in on tenth millimeter Sub Division. The instrument is supplied with two samples containers made of aluminium. The penetration is the distance in millimeter that a standard needle penetrates vertically into a sample of the material under fixed conditions of loading time and temperature. This instrument measures the reading on round dial fitted on a Aluminium Painted stand having adjustable penetration needle, holder sample container and transfer dish.



Penetrometer Apparatus

Pensky Martin Flash Point Apparatus (9008019)

This is widely used for determination of closed cup Flash Point of Fuel Oil, cut back asphalts, other viscous material and suspension of solids having a flash point about 490C(1200F). The apparatus serve the purpose according method B. The apparatus consists of Brass Test cup with handle removable cup cover with spring operated rotating shutter having piolet jet, stirrer with flexible shaft. The assembly rests in Air Bath which is covered with Dome shape metal top. The cup is fitted with insulated handle and locking arrangement near cup plange. The assembly rests on a round shaped heater with different temperature regulation system suitable for operation on 220 Volts AC mains.



Pensky Martin Flash Point Apparatus

Redwood Viscometer (9008020)

Red Wood Viscometer apparatus are widely used in petroleum laboratories, oil refineries, industries, educational institute, research organizations and various other institutions for study of the red wood viscosity of petroleum products. Two adaption of redwood viscometer are available NO.1 for liquid having redwood flow 20 second to 2000 second and no.2 for liquid whose flow time with no.1 exceed 2000 seconds. The complete outfit comprises stainless steel bath having drain plug with elec.

Heating arrangements able to operate at 220 volts 50 hz ac mains or gate heating arrangements, with tap, silver plated oil cup with precision stainless steel jet, ball valve, cover thermometer clip, stirrer, and suitable stand with leveling screws. In elec. Heating arrangements the temp. is controlled by energy regulator model / solid state elec. Regulator model / voltage varrier copper coil type model / digital temp. controller cum indicator type model.



Redwood Viscometer



Oil & Petroleum Instruments

Reid Vapour Pressure Test Apparatus (60006017)

Used to determine the vapour pressure of volatile non-viscous Petroleum products except liquified petroleum gases. The Vapour pressure is made up of brass heavily Chromium plated and consists of an air chamber and a gasoline chamber of definite dimensions and volume ratio. A pressure gauge of required range is fitted above the air chamber. The joints are made leak proof by neoprene washers. The water bath used is of such dimensions that the vapour pressure bombs may be immersed to at least 1 inch above the air chamber and maintained at a constant temperature range upto 100°C plus minus 20°C.



Reid Vapour Pressure Test Apparatus

Saybolt Viscometer (9008023)



Saybolt Viscometer

Used for determining the Viscosity of fuel oil and lubricating oil both thin & thick. The apparatus consists of Stainless Steel bath with oil cup which is centrally placed in a water bath. The bath has a lid which contains a water cooling tube, two handle with two stirrer blades, thermometer socket and a straight heater, stirring is done by turntable arrangement. A thermometer can also be inserted into the cup cover. The jets one universal and one Furol can be screwed to the cup by a handle (without strainer, withdrawal tube and glasswares). can operate on 220 Volts AC mains.

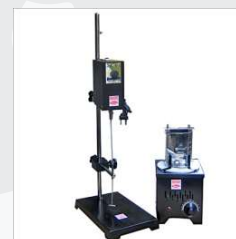
Softening Point Apparatus.(Ring & Ball Apparatus) (60006019)

This apparatus is meant for determination of softening point of Bituminous materials according . Softening point is that temperature at which the specimen under test becomes soft enough to allow a steel ball of specific dimension to fall a required distance under test condition . The apparatus consists of glass beaker, ring stand two steel balls with ring and ball guides & hand stirrer.

- Softening Point Apparatus (without glass beaker)
- Softening Point Apparatus (with glass beaker)
- Softening Point Apparatus (Ring & Ball Apparatus), with electric motorised stirrer and electric heater, stand with temperature regulator.
- Softening point apparatus with motorised stirrer, electric heated by concealed hot plate with temperature regulator.

Optional Accessories:

- Thermometer 60°C.
- Thermometer 61°C.
- Spare Concealed Hot Plate



Softening Point Apparatus



Oil & Petroleum Instruments

Tar Viscometer (60006020)

Determining the Viscosity of cut back Bitumen and road oil. It consists bath with cup of 10mm or 4mm orific and sleeve stirrer with ball lifting clip and ball. The assembly is kept on suitable stand with levelling screws. Suitable to operate on 220 Volts AC mains.

- Electric heated (without control)
- Electric heated with separate energy regulator control.
- Electric heated with solid state electronic regulator.
- Electric heated with voltage variac copper coil type.
- Electric Heated with digital temperature controller cum indicator.
- Multiple Tar Viscometer for 6 test cups with thermostat control & FHP electric motor stirrer.
- Multiple Tar Viscometer for 6 test cups Apparatus with digital temperature controller cum indicator & FHP electric motor stirrer.

Optional Accessories :

- Spare silver plated orifice cup 10 mm or 4 mm.
 - Flask receiver 100 ml capacity.
 - Polished carrying wooden case.
- Thermometer 8C.



Tar Viscometer