



TONS BIO MEDICAL PVT. LTD.

THINK POSITIVE, MAKE POSITIVE

MANUFACTURE OF MEDICAL APPLIANCES



QUALITY PRODUCTS

To meet customer's specific requirements / demand.



QUALIFIED SERVICE TEAM

Prompt and efficient service to meet customer's expectations.



TECHNOLOGY

Strong alliances with technology oriented companies

ABOUT US

We take this opportunity to introduce ourselves as one of the fastest-growing company in the field of Manufacturing medical equipments.

ADD:

Plot No.1, Vill- Dabhav, Dandi, Chacka Block, Rewa Road, Gate No- 244 Prayagraj, Uttar Pradesh India 211008

CONTACT US

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info@tonsbiomedical.com

AUTOCLAVE (VERTICAL)

- Reliable Convenient method of steam sterilization.
- Inner chamber made of thick S.S.
- Outer Chamber made of M.S. / S.S. immersion type heater should be provided. The lid is made up of S.S. and dies pressed.
- It is equipped with a pressure gauge, steam release valve, and safety valves.
- This instrument is supplied with Aluminium / S.S. Basket.
- Pressure Controls by spring Valves.
- It is used for sterilization under working steam pressure up to 15 PSI.
- Fitted with silicon rubber gasket jointless, to work on 230 volts A./C. only.



SIZES AVAILABLE (DIA X HEIGHT)	CAPACITY IN LTR.
• 25 x 45 cm	22
• 30 x 50 cm	35
• 35 x 55 cm	52
• 45 x 60 cm	95
• 55 x 75 cm	175

OPTIONAL ACCESSORIES:

- ✓ FOOT LIFTING ARRANGEMENT
- ✓ DIGITAL TEMPERATURE INDICATOR
CUM CONTROLLER
- ✓ WATER LEVEL INDICATOR
- ✓ AUTO CUT OF



AUTOCLAVE PORTABLE LABORATORY TYPE

- Autoclave vertical type with complete stainless steel, electrically with air release nozzle.
- With gasket, lid, safety valve, pressure gauge & steam release cock.

Size

30x30 cm

WALK IN CHAMBER



When your testing requires walk-in rooms, choose “**TONS BIOMEDICAL PRIVATE LIMITED**” Controlled Temperature Solution. Our test room feature automated process control, energy efficiency, and a vast range of features equipment that reliably produces required conditions, structural integrity that keeps the room working properly through a year of demanding test cycles, and measuring/monitoring equipment that precisely records all test data. Hamco makes GMP

walk-in stability test chambers are specially built to pass FDA and ICH Q1A compliance standards and have a reputation for reliability, quality and performance.

BACTERIOLOGICAL INCUBATOR



“**TONS BIOMEDICAL PRIVATE LIMITED**” make Bacteriological Incubator is specifically designed for Research laboratories, Engineering Lab, Pharmaceutical Lab, Cosmetic Industry, Chemical Lab, Clinical Lab, Microbiological Determination, Pharmaceutical Stability Assays, Food Processing QC. Hamco makes Bacteriological Incubator are specially designed for Research laboratories, Engineering Lab, Pharmaceutical Lab, Cosmetic Industry, Chemical Lab, Clinical Lab Microbiological Determination, Pharmaceutical Stability Assays, Food Processing, QC. **TONS BIOMEDICAL PRIVATE LIMITED** Make GMP Lab Incubator is specially built to Pass FDA and ICH Q1A compliance standards and has a reputation

for reliability, quality, and performance. Exceed FDA/ICH guidelines for long term, intermediate and accelerated stability studies.

STABILITY CHAMBERS



Whether your testing is for R&D, Clinical Trials or ongoing stability, **TONS BIOMEDICAL PRIVATE LIMITED** Stability chamber provide a stable temperature & humidity condition environment for warranty-free operations with a control system that is easy to operate. Hamco makes Stability Chamber is designed as per ICH guidelines and are manufactured to comply with requirements in the industries. Stability Testing is an integral part of formulation development. It considered proposals to be made for the shelf life of drug substance and product and recommended storage conditions. **TONS BIOMEDICAL PRIVATE LIMITED** Make GMP stability test chambers are specially built to Pass FDA and ICH Q1A compliance standards and have a reputation for reliability, quality, and performance.

Exceed FDA/ICH guidelines for long term, intermediate and accelerated stability studies
Capacity (Litres): 90, 120, 200, 324, 450, 600, 800, 1000, 1500, 2000 Liters

PHOTO STABILITY CHAMBERS



“**TONS BIOMEDICAL PRIVATE LIMITED**” make Bacteriological Incubator is specifically designed for Research laboratories, Engineering Lab, Pharmaceutical Lab, Cosmetic Industry, Chemical Lab, Clinical Lab, Microbiological Determination, Pharmaceutical Stability Assays, Food Processing QC. **TONS BIOMEDICAL PRIVATE LIMITED** makes Bacteriological Incubators are specially designed for Research laboratories, Engineering Lab, Pharmaceutical Lab, Cosmetic Industry, Chemical Lab, Clinical Lab Microbiological Determination, Pharmaceutical Stability Assays, Food Processing, QC. **TONS BIOMEDICAL PRIVATE LIMITED** Make GMP Lab Incubator is specially built to Pass FDA and ICH Q1A compliance standards and has a reputation

for reliability, quality, and performance. Exceed FDA/ICH guidelines for long term, intermediate and accelerated stability studies.

BOD INCUBATOR



“**TONS BIOMEDICAL PRIVATE LIMITED**” make BOD incubator are manufactured to comply requirement of Industries. Specifically designed for long-term and stable continuous operation ideal for pharmaceutical, Biotechnology, and Research institution for storage and incubation studies. **TONS BIOMEDICAL PRIVATE LIMITED** Make GMP BOD Incubator is specially built to Pass FDA and ICH Q1A compliance standards and has a reputation for reliability, quality, and performance. Exceed **FDA/ICH** guidelines for long-term, intermediate, and accelerated stability studies.

Capacity (Litres):100,170,200,285,325,400,600,800,1000,1500,2000.

DEEP FREEZER (-200C/ - 400C/ -600C/ -800C)



“**TONS BIOMEDICAL PRIVATE LIMITED**” make Deep Freezer is designed to provide an ideal freezing environment for advanced medical and industrial application and also suitable for Research, Blood Bank Biological Use includes preservation of plasma, blood components, vaccines, etc. These Deep Freezer units are available in horizontal or vertical versions.

Capacity (Litres) : 90, 120, 200, 324, 450.

DUAL CHAMBER



“**TONS BIOMEDICAL PRIVATE LIMITED**” make Dual Chamber are designed to provide space-saving solutions. Ideal for lab with limited space wherein combination of different equipment is provided in the single vertical model.

Available in any combinations of - Lab Refrigerator, BOD Incubator, Bacteriological Incubator, Deep Freezer, Stability Chamber, Oven Etc.

LAB REFRIGERATOR



“**TONS BIOMEDICAL PRIVATE LIMITED**” Make Lab Refrigerators are stable and reliable with refrigerated environment for exact laboratory requirement . Lab refrigerators are for maintaining storage conditions of a product, exposure to low temperature requirements are on the lower side . Ideal temperature environment for clinical research, pharmaceutical and industrial use.

Capacity (Litres): 100, 170, 200, 285, 325, 400, 600, 800, 1000, 1500, 2000.

CRYOSTATE BATH (00 C/ -200C/ -400C/ -600 C/ -800 C)



CAPACITY LITRES: 15 LTR

“**TONS BIOMEDICAL PRIVATE LIMITED**” cryo baths are designed for research work at the desired temperature with high accuracy. The temperature is controlled by a microcontroller-based PID controller with an accuracy of 1 deg C. The unit is provided with a circulating pump to ensure uniform temperature.

Tonscryo bath offers a combination of contemporary cabinet design, advanced microcontroller, and a range of accessories to suit your specific laboratory or process application. High-strength cabinet construction with stainless steel interior tanks withstand the most critical applications in demanding laboratory environments. The unit is mounted on castor wheels for ease of mobility.

GLASS DOOR LAB REFRIGERATOR



“**TONS BIOMEDICAL PRIVATE LIMITED**” make lab refrigerator are stable and reliable with the refrigerated environment for exact laboratory requirements. Laboratory refrigerators are for maintaining storage conditions of a product, exposure to low-temperature applications, where the temperature requirements are on the lower side. Ideal temperature environment for clinical research, pharmaceutical and industrial use.

Capacity (Litres): 100, 170, 200, 285, 325, 400, 600, 800, 1000, 1500, 2000.

BLOOD BANK REFRIGERATOR



“**TONS BIOMEDICAL PRIVATE LIMITED**” make Blood bank refrigerator are stable and reliable with the refrigerated environment for exact blood bank storage requirements. Blood bank refrigerators are for maintaining storage conditions of blood bags, exposure to low-temperature applications, where the temperature requirements are on the lower side. Ideal temperature environment for blood bank storage.

HEATING & COOLING CHAMBER (FREEZE THAW CHAMBER



“**TONS BIOMEDICAL PRIVATE LIMITED**” 'HEATING AND COOLING CHAMBER WITH HUMIDITY CONTROL' is designed primarily to meet the requirements for tests of thermal shock and various industrial applications. These chambers are designed to meet the testing challenge of various industrial applications.

TONS BIOMEDICAL PRIVATE LIMITED Make GMP 'HEATING AND COOLING CHAMBER WITH HUMIDITY CONTROL' is specially built to Pass FDA and ICH Q1A compliance standards and have a reputation for reliability, quality, and performance. Exceed FDA/ICH guidelines for long-term, intermediate, and accelerated stability studies.

VACUUM OR INERT TUBE FURNACE :- (1000 /1200/1400 DEG C)



“**TONS BIOMEDICAL PRIVATE LIMITED**” make vacuum or inert tube furnace is widely used in the laboratory and analytical laboratories for research and analysis. This tube furnace has the facility to do vacuum and inert atmosphere. These furnaces also have a programmable control facility with a data recording facility.

Size : 50mm , 75mm , 100mm Id. Heating zone 300mm, 450mm.

LABORATORY DRYING OVEN (FORCED AIR DRAFT)



“**TONS BIOMEDICAL PRIVATE LIMITED**” make Lab Drying ovens with Forced Air Draft provided by means of Blower fitted the Bottom of the Oven. (There is no re-circulation of air). These ovens are suitable for drying a range of items such as glassware and components and any general-purpose warming applications. Ovens are made of Double-walled construction.

Capacity (Litres) : 27, 43, 91, 122, 216, 324,400, 600, 800, 1000

LABORATORY PRECISION OVEN (FORCED AIR CIRCULATION)



“**TONS BIOMEDICAL PRIVATE LIMITED**” make Lab precision Oven are with the forced air circulation provided by means of motorized blower fitted on the oven for re-circulation of air ensures a homogenous hot air mixture and an exact temperature profile. Ovens are made of Triple walled construction. The unit is insulated with 3” high-grade glass wool. Single door fitted on heavy hinges. The unit is provided with user-friendly adjustable stainless steel rod mesh trays.

Capacity (Litres): 43, 91, 122,216 ,324,400,800,1000.

LABORATORY OVEN (NATURAL CONVECTION)



“**TONS BIOMEDICAL PRIVATE LIMITED**” Natural Convection ovens are ideal for sterilization, drying, and thermal storage tasks which do not require high drying rates or special time parameters. These ovens are made of double-walled construction. The unit is insulated with 3” thick high-grade glass wool insulation. The single door is fitted on heavy-duty hinges. The unit is provided user-friendly adjustable stainless steel rod trays.

Capacity (Litres) : 27,43,91,122,216,324,400,600,800,1000

HIGH TEMPERATURE OVEN



“**TONS BIOMEDICAL PRIVATE LIMITED**” high-temperature ovens are manufactured in standard chamber sizes with a maximum operation that incorporates heavy-duty hinges. Motorized blower with V-belt fitted on the top side of the chamber for re-circulation of air to maintain uniformity of temperature inside the chamber. A unique air-flow system that ensures quick recovery after door opening.

Capacity: 43,91,122,216,324.

VACUUM OVEN – CIRCULAR & RECTANGULAR



“**TONS BIOMEDICAL PRIVATE LIMITED**” make vacuum ovens are designed & manufactured to comply requirements of the industry. It is widely applicable for drying & sterilization in fields of biochemistry, pharmacy, medicine, health, agriculture & scientific research, and environment protection. It is designed specifically for drying material that is thermosensitive or decomposed and oxidative easily.

Temp.Range: 500C to 2000C Temp. Accuracy :
± 0.20C Supply : 230V, AC

Capacity (Litres) : 11, 26,50 in circular Model ; 27, 40, & 121 in Rectangular Models.

CONSTANT TEMPERATURE WATER BATH



These water baths are equipped with circulating pumps for uniform temperature & also for circulating fluids through external devices.

Temperature Range: 5 deg C above ambient to 90 deg C

Temperature accuracy: +/- 0.5 deg c

Capacity (LT) : 15 Ltr

WATER BATH



These water baths are double-wall construction. supplied with drop-on lid and rings.

Temperature Range: 5 deg C above ambient to 95 deg C. **Temperature accuracy:** +/- 0.2 deg C.

Supply: 230v, single phase

TONS24A - With 4 holes of 7.5 cms dia & 1 hole of 12.5 cms dia

TONS 24B - With 6 holes of 7.5 cms dia

TONS24C - With 12 holes of 7.5 dia.

TRAY DRYER



“**TONS BIOMEDICAL PRIVATE LIMITED**” is a pioneer in tray dryers, with a wide range. Well appreciated for their durability and robust constructions, these tray dryers are built to various specifications as per the client's requirements. The final finish of the tray dryer, design, and manufacture has aesthetic looks. The maximum temperature attained inside the dryer is 150 deg C and will be indicated and controlled by a digital temperature indicator cum controller over the full range of heating load.

Nos of Tray: 4,5,7,12,24,48,96.

DRUM HEATERS



The verticle drum heater for drums in the vertical position The heating power is 12 kW. At 240C AC three-phase.

“**TONS BIOMEDICAL PRIVATE LIMITED**” drum heaters provide an easy, efficient, clean and economical way for the handling of viscous low melting point solidified materials in drums.

such materials include asphalt, Bitumen, Fats, gelatin, glucose, grease, lubricating oils, paints, petroleum jelly, phenols, plastics, sodium tar, vanaspati, oil, varnishes & waxes, etc.

HIGH TEMPERATURE FURNACE



“**TONS BIOMEDICAL PRIVATE LIMITED**” furnaces for high-temperature applications with short heat-up time & resistance to thermal shock. Designed with the highest standards for quality for efficient high-temperature use with minimal maintenance. Silicon carbide element with easy assembly. These furnaces are ideal for rapid cycling over extended periods.

Temperature range: 1500 Deg C max
(1450 deg C continuous)

Supply : Singlephase / threephase Capacity (litres) :: 2.3,4.25,6.75

MUFFLE FURNACE



“**TONS BIOMEDICAL PRIVATE LIMITED**” make muffle furnace is designed & manufactured to comply with requirements for laboratory & industrial applications. It is used for engineering tests of soils and aggregates, cement testing, ashing organic and inorganic samples, gravimetric analysis, ignition tests, etc. “**TONS BIOMEDICAL PRIVATE LIMITED**” make muffle furnaces are constructed in horizontal / Rectangular models. Insulation is with high-grade insulation material.

WATER STILL MANESTY TYPE



Introduction: “**TONS BIOMEDICAL PRIVATE LIMITED**” make water still are designed and fabricated to suit various I.S. standards to filter water from impurities, dissolved salts & odor in the field of Medical, Agricultural, Industrial, Research laboratories, and Hospitals.

Features :

- a) Pyrogen-free distilled water.
- b) Complete Stainless Steel.
- c) Wall mounting. Application :

General laboratory purpose water distillation plant

WATER STILL BEARNSTEAD TYPE



“**TONS BIOMEDICAL PRIVATE LIMITED**” make muffle furnace is designed & manufactured to comply with requirements for laboratory & industrial applications. It is used for engineering tests of soils and aggregates, cement testing, ashing organic and inorganic samples, gravimetric analysis, ignition tests, etc. “Hamco” make muffle furnace are constructed in horizontal / Rectangular model. Insulation is with high-grade insulation material.

QUARTZ TWO STAGE DISTILLER



With the use of sophisticated technology, we have been able to manufacture Quartz Two-Stage Distiller, a Basic Model.

These are designed with precision to ensure they are efficient and are capable of proper distilling. Further to add to the performance of the distiller, we have fitted it with the demountable boiler. For the convince of the clients, we have made provisions so that the first boiler can be dismantled from the 2nd Boiler and the condensing column.

Capacity:- 1,1.5,2,2.5,3,5 ltr/hr

FLOCCULATOR (JAR TEST APPARATUS)



“TONS BIOMEDICAL PRIVATE LIMITED”

Digital Flocculator has been specially designed for use in water treatment plants as jar test apparatus to correctly estimate the dosing of alum and such other coagulants for treatment of water & sewage. It provides identical test conditions for all samples. It is suitable for a continuous run in any busy laboratory to determine sulfate concentration & for measuring suspended matter and colloids general.



COD analysis requires digestion of samplers using potassium dichromate and sulphuric acid, TONS BIOMEDICAL PRIVATE LIMITED offers two models TONS BIOMEDICAL PRIVATE LIMITED which can accommodate 6 samples at a time and **TONS109B** which can accommodate 15 samples at a time. The digested sample is then titrated against FeS04.

Capacity:- 6 samples, 15 samples.

21 7 CFR SOFTWARE CAPABILITIES

Our log Software is designed as per the requirements of USFDA 21 CFR part 11 and is built upon the fast scanning core to view the online status with minimum delay.

BENEFITS:-

- > Comply 21 CFR Part 11.
- > Ease of operation.
- > Browser-Based Application.
- > Audit Trail.
- > Report generation.
- > Remote data acquisition.
- > SMS alert.
- > System diagnosis.

OUR FEATURES:-

- > Password protection:-Alphanumeric password for Individual users with auto expiry of password.
- > A User category:- Can be created a single category with similar rights to the individual users.
- > An Audit trail:- It is possible to trace users' all activities after login into logout.
- > A Report and graph:- Report with all data, events, alerts, mean kinetic temperature report, chamber graph, scanner graph, etc.
- > An Input/output status:-All the control input/output status you can see online.

CLEVELAND OPEN CUP FLASH POINT TESTER



When your testing requires Open cup Flash Point detection, choose “**TONS BIOMEDICAL PRIVATE LIMITED**” Make Flash point apparatus. Flash Point is Lowest the temperature at which application of the ignition source causes the vapor of a specimen of the sample to ignite under the specified condition of the test. The temperature of the approximately 70 ml test specimen is increased rapidly at first and then at a slower constant rate as the flashpoint is approached. At specified intervals a test flame is passed across the cup, to measure the tendency of the test specimen to form a flammable mixture with air under controlled laboratory conditions.

PENSKY MARTENE CLOSED CUP TESTER



When your testing requires Open cup Flash Point detection, choose “**TONS BIOMEDICAL PRIVATE LIMITED**” Make Flashpoint Apparatus. Determines flashpoints of a wide range of products by a closed cup method with two option speed stirring of the sample. Extensively used in shipping and safety regulations for detection of contamination by volatile and flammable materials in fuel oils and lubricating oils, and for characterization of hazardous waste samples.

ABEL FLASHPOINT TESTER



When your testing requires Open cup Flash Point detection, choose “**TONS BIOMEDICAL PRIVATE LIMITED**” Make Flash point apparatus. Flash Point is Lowest the temperature at which application of the ignition source causes the vapor of a specimen of the sample to ignite under the specified condition of the test. The temperature of the approximately 70 ml test specimen is increased rapidly at first and then at a slower constant rate as the flashpoint is approached. At specified intervals a test flame is passed across the cup, to measure the tendency of the test specimen to form a flammable mixture with air under controlled laboratory conditions.

KINEMATIC VISCOSITY BATH



Kinematic viscosity is of primary importance in the design and selection of a wide range of petroleum products. Calibrated capillary viscometers are used to measure flow under gravity or vacuum at precisely controlled temperatures.

CAPILLARY GLASS VISCOMETER



Capillary glass viscometer is the most precise method to measure the viscosity of petroleum products and liquids. The viscometer is coming in different sizes, types, and shapes and has different volumes to measure the kinematic viscosity of the oils.

Standard: -ASTM D 445 and ISO 3104 and specification as per ASTM D 446 and ISO 3105 provided with constant at 40 deg C, 50 deg C

&100 deg C with calibration certificate traceable to cannon oil the USA

Model: Cannon Fenske Routine, Cannon Fenske reverse flow, Suspended level long-form, suspended level short form, BS/U Type, Ubbelohde type.

REDWOOD VISCOMETER



These viscometers are used to determine the viscosity of petroleum products. Two adoptions of Red Wood viscometer is available No. 1 for liquids having Red Wood flow 20 seconds to 2000 seconds and No. 2 for liquids whose flow time exceeds 2000 seconds and No. 2 for liquids whose flow time exceeds 2000 seconds. RedwoodViscometer is used for the determination of redwood viscosity and can be converted to Kinematic viscosity also. It is also used for observing the effect of temperature on viscosity by Plotting graph.

STANDARD:- Conforms to the specifications of IP 70. **Model:** Redwood No. 1 & 2.

SAYBOLT VISCOMETER



Determines the time required for 60mL of sample to flow through a calibrated orifice under precisely controlled conditions. Saybolt Universal Seconds (SUS) is the standard measurement for lubricants, insulating oils, and lighter fuel grades, and Saybolt Furl Seconds (SFS) is used for heavier oils and bitumens.

CLOUD & POUR POINT APPARATUS



Cloud point and pour point are indicators of the lowest temperature of utility for petroleum products. The sample is periodically examined while it is being cooled in the cloud and pour point apparatus. The highest temperature at which haziness is observed (cloud point), or the lowest temperature at which movement of the oil is observed (pour point), is reported as the test result.

Conforms to the specifications of ASTM d97, D2500, D5853, D6074, D6158; IP 15, 219; ISO 3015, 3016; DIN 51597; FTM 791-201; NF T 60-105.

Model: Single Compartment, Three compartments, Four Compartment, -35 deg c, -51 deg c, -70 deg C

RAMSBOTTOM CARBON RESIDUE APPARATUS



Determines the 'carbon residue' left after evaporation and pyrolysis of sample oil in the Ramsbottom furnace, providing an indication of the deposit forming tendencies of fuels and guidelines for the processing of refinery products.

CARBON RESIDUE CONRADSON



Provides an indication of relative coke forming properties of petroleum oils. The residue remaining after a specified period of evaporation and pyrolysis is calculated as a percentage of the original sample

COPPER CORROSION TEST APPARATUS FOR PETROLEUM PRODUCTS



TEST METHOD:-The Copper Strip Tarnish Test assesses the relative degree of corrosivity of petroleum products, including aviation fuels, automotive gasoline, natural gasoline, solvents, kerosene, diesel fuel, distillate fuel oil, lubricating oil, and other products. A polished copper strip is immersed in 30mL of the sample at elevated temperature. After the test period, the strip is examined for evidence of corrosion and a classification number from 1-4 is assigned based on a comparison with the ASTM Copper Strip Corrosion Standards. For aviation fuels and natural gasoline, the sample tube is placed inside a stainless steel bomb during testing.

STANDARD:- Conforms to the specifications of: ASTM D130& 1838, D6074, D6158; IP 154; ISO 2160; DIN 51759; FTM 791- 5325; NF M 07-015.

Model: For Petroleum products & For LPG

REID VAPOUR PRESSURE TEST APPARATUS



TEST METHOD:-Vapor pressure is a critical factor in the handling and performance of liquid petroleum and liquefied petroleum gas (LPG) products. The vapor pressure of automotive gasoline is subject to governmental regulation for pollution control purposes.

STANDARD Conforms to: ASTM D323& 1267, IP 69, ISO 3007, DIN 51616, FTM 791-1201; NF M 07-007, 41-010

DENSITY AS PER ASTM D 1298



Test Method: -

A versatile constant temperature density bath designed for density/gravity measurement up to 90 deg c

Density/Specific Gravity is of primary importance in the design and selection of a wide range of petroleum products. Calibrated hydrometers are used to measure density/specific gravity at precisely controlled temperatures.

Standard: -

Conforms to ASTM D323, D1298, D6074, D6158 and related specifications

SMOKE POINT APPARATUS



TEST METHOD:- The smoke point is an indicator of the combustion qualities of aviation turbine fuels and kerosene. The fuel sample is burned in the Smoke Point Lamp, and the maximum flame height obtainable without smoking is measured.

STANDARD :- Conforms to: ASTM D1322; ISO 3014; IP 57; DIN 51406; FTM 791-2107; NF M 07-028.

OXIDATION STABILITY TEST APPARATUS (RBOT)



Test Method: -

The RBOT procedure employs severe oxidation conditions to rapidly determine oxidation stability. Suitable for both new and in-service oils, the RBOT method is applicable to many types of petroleum oils. The sample is oxidized in the presence of water and a copper catalyst in a stainless steel pressure vessel under an initial pressure of 90psi (620kpa). The pressure inside the vessel is recorded electronically or mechanically while the vessel is rotated at 100rpm at a constant temperature, and the amount of time required for a specified drop in pressure is the oxidation stability of the sample. A variation of the RBOT method is the "Thin Film Oxidation Uptake Test" (TFOUT) for gasoline automotive engine oils.

Standard:- Conforms to the specifications of: ASTM D2112, D2272, D4742; IP 229

FREEZING POINT APPARATUS



TEST METHOD:-The freezing point of aviation fuel is the lowest temperature at which the fuel remains free of solid hydrocarbon crystals that can restrict the flow of fuel. The temperature of the fuel in the aircraft tank normally falls during flight depending upon aircraft speed, altitude, and flight duration. The freezing point of the fuel must be lower than the minimum operational tank temperature.

The test determines the temperature below which solid hydrocarbon crystals form in aviation fuels. The sample is cooled with continuous stirring in a Dewar-type sample tube until crystals appear.

Features and Benefits:- Conforms to ASTM D1177 specifications

Model: Manual cooling, Refrigerated cooling.

DIELECTRIC BREAKDOWN VOLTAGE TESTER

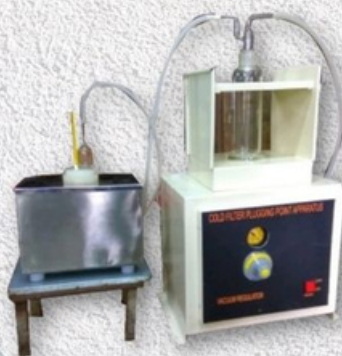


Test method:- the dielectric breakdown voltage is a measure of the ability of an insulating liquid to withstand electrical stress. The power-frequency breakdown voltage of a liquid is reduced by the presence of contaminants such as cellulosic fibers, conducting particles, dirt, and water. A low result in this test method indicates the presence of significant concentrations of one or more of these contaminants in the liquid tested.

Standard:- conforms to: astm d877;astm d 1816,ip-295.

Model: Manual, Automatic.

COLD FINGER PLUGGING POINT APPARATUS



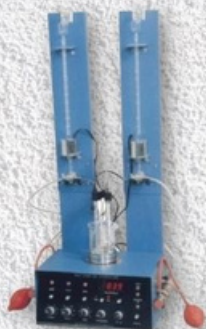
TEST METHOD:- Determines the low-temperature flow characteristics of automotive diesel fuels and gas oils, including samples with flow improving additives, by measuring the temperature at which the sample ceases to flow through a wire mesh filter under standard test conditions. The complete test consists of Cold Filter Plugging Point Apparatus, Vacuum System, and Cooling Bath.

STANDARD:-

Conforms to ASTM D6371, IP 309 and DIN 51428 specifications

Model: Manual cooling, Refrigerated Cooling.

TOTAL ACID NUMBER /TOTAL BASENUMBER



Test Method:- This test method covers procedures for the determination of acidic constituents of basic constituents in petroleum products and lubricants soluble or nearly soluble in a mixture of toluene and propane 2-ol.

Standard:- Conforms to the specifications of ASTM D 2896 & ASTM d 664.

DISTILLATIONRANGE APPARATUS



TEST METHOD:- The sample is evaporated and condensed under controlled conditions, and observations are made of the temperatures at which various percentages are recovered and/or the percentages recovered at specified temperatures.

STANDARD:- Conforms to the specifications of: ASTM D86, D285, D4737 and related international specifications

Model: Single, Double, Manual, Refrigerated cooling.

FOAMING TEST APPARATUS



TEST METHOD:- Foaming of lubricating oils in applications involving turbulence, high-speed gearing, or high volume pumping can cause inadequate lubrication, cavitation, overflow, and premature oxidation. The sample is blown with a controlled volume of air at different specified temperatures, including a newer high-temperature test at 150°C. The resultant foam is measured at the end of each aeration period and at different intervals afterward. In the high-temperature test, the amount of time required for the foam to collapse to “0” after the aeration period is also measured.

STANDARD:- Conforms to the specifications of: ASTM D892, D6082; IP 146; DIN 51566; FTM 791-3211; NF T 60-129

Model: Single, Double.

SOFTENING POINT APPARATUS



The sample is cast in shouldered rings and heated at a controlled rate under the weight of a steel ball. The softening point is the temperature at which the bitumen disks soften and sag downward a specified distance.

Standard:- Conforms to the specifications of: ASTM D36, E28; AASHTO T53; IP 58, 198; NF T 66-008

Model: Manual, Semiautomatic, Automatic

DROP POINT APPARATUS



The dropping point test permits use a different heating procedure: the test cell is inserted in an aluminum block oven maintained at a constant temperature that is higher than the expected dropping point of the sample. The sample temperature then rises to the dropping point without operator control.

Standards:- Conforms to ASTM D566, D4950; NF T 60-102 and related specifications Conforms to ASTM D2265 and D4950 specifications

Model:- Manual, Semiautomatic, Automatic.

STANDARD PENETROMETER



TEST METHOD:- Foaming of lubricating oils in applications involving turbulence, high-speed gearing, or high volume pumping can cause inadequate lubrication, cavitation, overflow, and premature oxidation. The sample is blown with a controlled volume of air at different specified temperatures, including a newer high-temperature test at 150°C. The resultant foam is measured at the end of each aeration period and at different intervals afterward. In the high-temperature test, the amount of time required for the foam to collapse to "0" after the aeration period is also measured.

STANDARD:- Conforms to the specifications of:

ASTM D892, D6082; IP 146; DIN 51566; FTM 791-3211; NF T 60-129

Model: Single, Double.

BOMB CALORIMETER



Test Method:- Determines the 'Gross Calorific Value of any solid or liquid sample by determining the water equivalent by burning 1 Gm. of Known CV sample.

Standard:- Confirms to the specification ASTM D 4809, D 240, D E711, IS -1350- 1966, BS 1016 PART 5-1967, IP 12/63 T.

Model:- Manual, Semiautomatic, Fully Automatic with Printer and with Automatic Oxygen Filling.

DROP POINT APPARATUS



The dropping point test permits use a different heating procedure: the test cell is inserted in an aluminum block oven maintained at a constant temperature that is higher than the expected dropping point of the sample. The sample temperature then rises to the dropping point without operator control.

Standards:- Conforms to ASTM D566, D4950; NF T 60-102 and related specifications Conforms to ASTM D2265 and D4950 specifications

Model:- Manual, Semiautomatic, Automatic.

MOISTURE OVEN FOR COAL



Test Method:- For the determination of moisture in coal and coke by drying in an atmospheric / nitrogen atmosphere as described in BS 1016 / ASTM D 3302.

Standard:- ASTM D3302

Model:- Digital. MOISTURE OVEN FOR COAL:- HAMCO 103 SERIES

ASH CONTENT / VOLATILE MATTER



TEST METHOD:- Ash is determined by weighing the residue remaining after burning the coal or coke under rigidly controlled conditions of sample weight, temperature, time, atmosphere, and equipment specifications.

Standard :- ASTM D 3174

BIO SAFETY CABINET



PSI Class II Biosafety Cabinet Type A1 & A2 are designed for the protection of the operator, product, and environment from pathogenic agents and microorganisms transmitted in a respiratory way and also for the creation of a bacterial dust-free air environment. It has a common plenum from which 30% of air is exhausted, and 70% re-circulated to the work area as the down flow.

DYNAMIC PASS BOX



A dynamic pass box considers the necessity and passes box manufacture a dynamic pass box that aids in the prevention of pollutants in a cleanroom or other areas. A cubical box fitted between two classified areas or material passing with HEPA-filtered air can be specified as a dynamic pass box. There are interlocked doors on both sides of the dynamic box that keep the air from being polluted. When the button is pressed, the door opens and closes with the aid of the magnetic lock. A UV light in the dynamic pass box controls the closing and opening of doors. When the UV light is turned on, the door is closed; when it is turned off, the door is open.

STATIC PASS BOX



As the name itself suggests, the primary and only work of a pass box is to pass materials from one side to the other, between controlled environments of different classes so as to avoid airborne cross-contamination. Should any particulate matter be present on the surface of the material being transferred, it is swiped away during the operation.

LAMINAR AIR FLOW



A laminar airflow cabinet, also known as a tissue culture hood, clean bench, biological safety cabinet, or simply laminar hood, is a work surface enclosed in a boxlike structure mechanized to flood the inside of the enclosure with clean, sterilized air-flowing in a laminar manner. It looks something akin to a fume hood but works the opposite way.



Product Type:	Lab Furniture
Material:	GPSP, GI and CRC
Brand:	Tons Bio Medical
Is It Lockable:	Yes
Color:	Wide Range of colors to choose from

Product Discription

We at **Tons Bio Medical Private Limited** manufacture high quality modular lab furniture, that is durable as well as reliable in the long run.

We understand the expectations of our customers and therefore through continuous R&D, have achieved an unmatched quality.

Our customers can choose from a wide range of colours to various designs, also offering customisations as and when required.



THANKYOU

TONS BIO MEDICAL

PRIVATE LIMITED

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