Spontaneous Ignition Point Tester
ASTM E659

Product model: *ISIP0642*

Product Description

This instrument is suitable for detecting the spontaneous ignition point of liquid petroleum and petrochemical products such as heat transfer fluid, flame retardant hydraulic fluid, flame retardant gas turbine oil, and flame retardant transformer oil. During operation, a small amount of sample is added to a glass flask that is constant at a predetermined temperature and contains air, and the contents of the flask are observed for 10 min or until it occurs naturally. Autoignition is judged by the sudden appearance of a flame in the flask and a sudden increase in the temperature of the gas mixture. When a sample of a specified volume ignites, the lowest temperature of the gas mixture inside the flask is taken as the auto-ignition point of the sample, and the ignition delay time is recorded at the same time.

Technical Parameter

1. Applicable standard: ASTM E659
2. Temperature control method: Imported PID digital temperature controller
3. Temperature control accuracy: Rt ~ 600 ± 1℃
4. Heating method: Metal bath heating
5. Power of the whole machine: 2000W
6. Working unit: 1 unit operation
7. Working power supply: AC220V/50Hz
8. Instrument size: 400*400*520mm
9. Net weight: 43KG
10. HS Code: 9027899090

Main Feature

1. The instrument is desktop, compact and easy to use
2. High-quality ceramic hearth, with metal bath for heat conduction inside;
3. Environmentally friendly metal bath heating, reducing the harm of oil fume to the human body, and efficient thermal insulation effect;
4. High-quality electric furnace wire heating, long service life;
5. High-quality electric heating rod heating, easy maintenance;
6. Efficient insulation material to keep warm to avoid scalding the operator;
7. Microprocessor thermostat and PID control, digital display temperature, accuracy 0.1℃, Pt100 RTD temperature probe;
8. Operating temperature range: Rt ~ 600°C.

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Density tester ASTM D1298

Product model: *ID1884*

Product Introduction

This instrument is suitable for measuring the density of easy-flowing transparent liquids. It can also use a suitable constant temperature bath to measure viscous liquids above room temperature, and it can also be used for opaque liquids.

Technical Parameter

1. Applicable standard: ASTM D1298
2. Working unit: 2 tubes
3. Refrigeration method: Built-in compressor refrigeration system
4. Temperature control method: Imported digital display PID temperature control
5. Temperature control accuracy: ±0.1℃
6. Working range: 0～60℃
7. Working power supply: AC220V 50HZ
8. Power of the whole machine: 1600W
9. Instrument size: 370*520*630mm
10. Net weight: 36KG
11. HS Code: 9031809090

Features

1. Vibration-absorbing compressor refrigeration technology, fluorine-free refrigeration;
2. One-piece structure, easy to operate;
3. Low-noise magnetic pump cross-circulation structure;
4. 2 unit test structure, low temperature bath with lighting;
5. High-power solid-state relay control output, no voltage leakage;
6. There is a stirrer on the electronic heating bath;
7. Stainless steel heater;
8. The thermostat displays the heating status;
9. The shell is made of high-quality cold-rolled steel plate, and the surface is treated with electrostatic spray, which has good rust resistance and is easy to clean;
10. Safety protection device to prevent overheating and low water level;
11. It is very convenient to contact the control box;
12. High-quality Omron PID thermostat, digital display temperature, accuracy 0.1℃

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Trace moisture tester

Product Model: *ITM0246*

Introduction

The instrument can measure the content of trace moisture in different liquid, gas and solid samples. It has the advantages of fast test speed, high test accuracy and good reliability. It is widely used in electric power, petroleum, chemical industry, pesticide, medicine, environmental protection and other departments.

Technical Parameter

1. Applicable standard: ASTM D1744, ASTM D4377, ASTM D6304
2. Accuracy: 1ug ~ 1000ug, ±3ug (excluding injection error)
   >1000ug, 0.3% (excluding injection error)
3. Measuring range: 10 ug ~ 100 mg
4. Resolution: 0.01ug
5. Electrolysis current: 0 ~ 300mA
6. Power supply voltage: AC220, 240V /50, 60HZ
7. Power consumption of the whole machine: 10W
8. Instrument size: 200*200*300mm
9. Net weight: 4KG
10. HS Code: 9027899090

Main Feature

1. Adopt 4.63-inch tft LCD screen resistive touch, friendly man-machine interface;
2. The low-voltage constant current source electrolytic circuit is used to reduce the power consumption of the instrument;
3. The high-precision measurement electrode signal generation and detection circuit make the judgment of the electrolysis end point fast and accurate, and has a strong anti-interference ability;
4. Automatically deduct the electrolyte blank current. The balance point is automatically captured;
5. The measuring electrode signal is displayed in the form of a progress bar on the liquid crystal display, which intuitively indicates the water content of the electrolyte;
6. During the electrolysis process, the electrolysis current and the current blank current are displayed in real time, and the user can monitor the whole process of electrolysis;
7. Stepless electronic speed regulation of stirring speed
8. It has the functions of measuring electrode open circuit fault, measuring electrode short circuit, and automatic detection of electrolyte iodine;
9. With automatic detection function of electrolytic electrode open circuit fault;
10. There are three methods of volume injection, weighing injection and dilution injection, and the water content is automatically calculated for the test results, which greatly facilitates the operator's test work;
11. It can store historical records with time stamps, up to 1000 records;
12. Perpetual calendar calendar clock, accurate travel time;

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13. With WIFI communication capability, with the host computer software, you can view real-time data and historical data on the computer, and print test reports;
14. With network printing function.

Configuration List

No.	Name	Spec.	Qty	Unit	Remark
1	Main engine	——	1	Set	——
2	Power cord	——	1	Pc	——
3	Electrolytic cell (with electrodes)	——	1	Set	——
4	Stirring grain	——	2	Grain	——
5	Silicone pad	——	10	Pc	——
6	Color-changing silicone	——	1	Bag	——
7	Vacuum grease	——	1	Pc	——
8	Microinjector	0.5ul	1	Pc	——
9	Microinjector	50ul	1	Pc	——
10	Injector	——	1	Pc	——
11	Sealed Needle	——	2	Pc	——
12	Antenna	——	1	Pc	——
13	Instruction Manual	——	1	Pc	English
14	Certificate of Conformity	——	1	Pc	——
15	Product Warranty Card	——	1	Pc	——

Demulsibility Characteristics tester ASTM D2711

Product Model: *IDC8022*

Product Introduction

During the instrument test, add a certain amount of sample and distilled water to the special separatory funnel. Stir for a period of time at a certain speed at a suitable temperature, and measure after standing for 5 hours, and record the volume of water separated from the oil, the volume of the emulsion and the percentage of water in the oil. This instrument is suitable for measuring the mutual separation ability of oil and water in medium and high viscosity lubricating oils.

Technical Parameter

1. Applicable standard: ASTM D2711
2. Heating method: Electric heating tube heating
3. Temperature control range: Rt ~ 82℃
4. Temperature control accuracy: ±0.1℃
5. Speed adjustment: Precision potentiometer, digital tachometer display
6. Heating power: 2500W
7. Working power supply: AC220V/50HZ
8. Instrument size: 530*400*620mm
9. Net weight: 40KG
10. HS Code: 9031809090

Performance Characteristics

1. The copper stirrer meets the standard requirements;
2. The glass cylinder is transparent for observation, which is convenient for operation;
3. Digital display speed, adjustable by precision governor;
4. Digital timer controls the stirring time;
5. Microcomputer temperature controller, digital display, accuracy ±0.1℃ PT100 sensor;
6. Stainless steel heater;
7. The stainless steel holder fixes the glass test tube, which is easy to operate.

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Particulate Contamination tester

Product model: *IPC0093*

Product Introduction

This instrument is suitable for detecting the content of solid particle pollutants in jet fuel. Under the specified conditions, the sample is filtered through a glass sand filter device, and the weight gain on the microporous membrane filter is the total pollutant content of the sample.

Technical Parameter

1. Applicable standard: SH/T0093, ASTM D5452
2. Filtration method: Vacuum pump suction
3. Vacuum degree: 80KPA
4. Working unit: A set of standard filtration system
5. Timing method: Digital display timer
6. Working power supply: AC220,240V/50,60Hz
7. The power of the whole machine: 500W
8. Instrument size: 300*450*610mm
9. Net weight: 20KG

Main Feature

1. The instrument is a stainless steel structure operation panel, ceramic layer;
2. Digital display time, wind chime reminds;
3. The time taken out can be set arbitrarily;
4. Low noise vacuum pump;
5. Standard glass fittings meet the requirements of ASTM standards;
6. The metal clamp adopts mold mold;

Configuration List

No.	Name	Specification	Quantity
1	Host	JF0093	1 set
2	Suction flask	5000 ml	1 pc
3	Funnel		1 pc
4	Aluminium metal clips	Φ6	1 pc
5	Membrane Filters	φ47mm aperture 0.8μm	1 box
6	Fuses	20A	4 pcs
7	Vacuum pump oil (self-provided)		1 bottle
8	Silicone tubing		1 m
9	Operating instruction		1 pc
10	Certificate		1 pc
11	Product warranty card		1 pc

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