



METERS PETROLEUM EQUIPMENT

METERS PETROLEUM EQUIPMENT BJO1BR1

PENETROMETER

Meters of Petroleum Equipment measure the consistency of lubricating greases (Penetrometer) or determining their heat value which do not contain water, coal, paraffin and other combustible substance (Oxygen Bomb Calorimeter) or can trace low levels of free, emulsified and dissolved (Coulometric Karl Fischer Titrator)



The instrument is used to determine the penetration of pavement petroleum asphalt, modified asphalt, liquid petroleum asphalt and emulsified asphalt. It is also suitable to test solid particle, powder, colloid and raw-food materials such as cheese, glycine, butter, cream and leavening. It is suitable to determine the penetration of asphalt, paraffin and grease. Equipped with cold light source and magnifying glass, easy to use and operate. Equipped with penetration display, the data is stable and accurate, easy to observe. It has the function of coarse and fine adjustment of lifting frame, which is convenient for the needle point to align with the sample plane.

SPECIFICATIONS

Model	BJO1BR1
Measurement range	0 penetration ~ 600 penetrations
Resolution	0.1 penetration (0.01 mm)
Timing range	5s, 8s, 10s, 12s, 30s, 60s, error < ±0.1s
Temperature control accuracy	25°C ± 0.1°C
Constant temperature bath	Hard glass chamber
Stirring	Magnetic stirrer, rotary stirring
Working environment - Temperature	(15 ~ 35)°C
Working environment - Relative humidity	≤ 85%
Power consumption	200W
Power supply	AC(220±10%)V, 50Hz
Dimension	260x400x640 mm
Net weight	16 kg
Optional accessories - Grease masher	Used to determine cone penetration of lubricating grease (or petrolatum)
Optional accessories - Standard cone	102.5g ± 0.05g
Optional accessories - Other cones	1/2 scale cone, 1/4 scale cone
Optional	Grease cone penetration test devices
Alt Name	Penetrometer

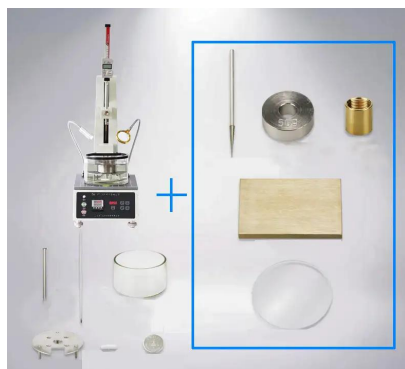
APPLICATIONS

Petroleum Industry, Petrochemical Industry, Oil Industry

METERS PETROLEUM EQUIPMENT BJO1BS1

PENETROMETER

Meters of Petroleum Equipment measure the consistency of lubricating greases (Penetrometer) or determining their heat value which do not contain water, coal, paraffin and other combustible substance (Oxygen Bomb Calorimeter) or can trace low levels of free, emulsified and dissolved (Coulometric Karl Fischer Titrator)



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SPECIFICATIONS

Model	BJO1BS1
Measurement range	0 penetration ~ 600 penetrations
Resolution	0.1 penetration (0.01 mm)
Timing range	5s, 8s, 10s, 12s, 30s, 60s, error < ±0.1s
Temperature control accuracy	25°C ± 0.1°C
Constant temperature bath	Hard glass chamber
Stirring	Magnetic stirrer, rotary stirring
Working environment - Temperature	(15 ~ 35)°C
Working environment - Relative humidity	≤ 85%
Power consumption	200W
Power supply	AC(220±10%)V, 50Hz
Dimension	261x400x640 mm
Net weight	16 kg
Optional accessories - Grease masher	Used in tests determining cone penetration of lubricating grease (or petrolatum)
Optional accessories - Standard cone	102.5g ± 0.05g
Optional accessories - Other cones	1/2 scale cone, 1/4 scale cone
Optional	Paraffin needle penetration test devices
Alt Name	Penetrometer

APPLICATIONS

Petroleum Industry, Petrochemical Industry, Oil Industry

METERS PETROLEUM EQUIPMENT BJO1BT1

AUTOMATIC OXYGEN BOMB CALORIMETER

Meters of Petroleum Equipment measure the consistency of lubricating greases (Penetrometer) or determining their heat value which do not contain water, coal, paraffin and other combustible substance (Oxygen Bomb Calorimeter) or can trace low levels of free, emulsified and dissolved (Coulometric Karl Fischer Titrator)



The instrument is suitable to determine calorific value of combustible materials such as petroleum products without water (gasoline, jet fuels, diesel oil and fuel oils, etc.), coal, coke and paraffin, etc. This instrument adopts sealed oxygen bomb. The whole structure adopts stainless steel material. The inner water cylinder is composed of stainless steel sheet. The cross section is pyriform and the capacity is 3kg. The external water jacket is double layer container. It filled with water when doing determination. It make the water temperature in the cylinder uniform by water jacket stirrer and form the constant temperature environment meeting the requirements of test.

SPECIFICATIONS

Model	BJO1BT1
Old Model	BPTL-303
Heat capacity	14400 J/K ~ 14500 J/K
Pressure endurance of oxygen bomb	20 MPa
Temperature measurement range	10 °C ~ 35 °C
Repeatability	≤0.2% (Grade C)
Resolution	0.001 K
Measurement accuracy	≤ 60 J/g
Data saved	31 pieces
Relative humidity	≤ 85%
Power supply	AC(220±10%)V, 50Hz
Total power consumption	≤150W
Dimension	600x460x430 mm
Optional accessory	Pellet press machine
Alt Name	Automatic Oxygen Bomb Calorimeter

APPLICATIONS

Petroleum Industry, Petrochemical Industry, Oil Industry

METERS PETROLEUM EQUIPMENT BJO1BW1

COULOMETRIC KARL FISCHER TITRATOR

Meters of Petroleum Equipment measure the consistency of lubricating greases (Penetrometer) or determining their heat value which do not contain water, coal, paraffin and other combustible substance (Oxygen Bomb Calorimeter) or can trace low levels of free, emulsified and dissolved (Coulometric Karl Fischer Titrator)



The instrument is used to determine water content in the liquid petroleum products. The instrument adopts microcomputer control technology, with the characteristics of fast analysis speed, high precision, LCD display, automatic printing, menu selection and other functions. It is a fully functional, easy to operate, automatic measuring and analyzing instrument. It can be used for micro analysis of low content samples with high sensitivity. The 0.5ul injector is equipped, and the calibration of the instrument is fast and accurate. The unique alternating balance isolation detection technology makes the balance detection more rapid, accurate and stable.

SPECIFICATIONS

Model	BJ01BW1
Old Model	BPTL-306
Titration method	Microprocessor controlled titration
Electrolytic current output	0-400 mA automatic control
Display system	LCD color 7-inch large screen display
Man-machine dialogue mode	Touch screen input
Sensitive valve	0.1 µg H2O
Accuracy	10 µg - 1 mg H2O: ±3 µg; Above 1 mg H2O: ±0.3% (excluding injection error)
Power consumption	Less than 100 W
Use environment	Temperature 5°C - 40°C, humidity < 85%
Power supply	AC220V ±10%, 50Hz ±2.5Hz
Alt Name	Coulometric Karl Fischer Titrator

APPLICATIONS

Petroleum Industry, Petrochemical Industry, Oil Industry

METERS PETROLEUM EQUIPMENT BJO1BU1

OXYGEN BOMB CALORIMETER

Meters of Petroleum Equipment measure the consistency of lubricating greases (Penetrometer) or determining their heat value which do not contain water, coal, paraffin and other combustible substance (Oxygen Bomb Calorimeter) or can trace low levels of free, emulsified and dissolved (Coulometric Karl Fischer Titrator)



The instrument adopts technology of single chip machine, LCD screen, high accuracy temperature sensor and high performance A/D conversion device. It is a highly intelligent instrument. The test procedure is fully automatic. After placing the sample and inputting the right parameters, the instrument will finish all the procedures without manual interference. It will print the test data directly after the test is over. The inner water container is made of stainless steel and the water volume is 3000g. The external water jacket is a double container. It will be filled fully with water when testing, and the stirrer in the water jacket will work to ensure the uniform temperature and create the constant temperature condition for test requirement.

SPECIFICATIONS

Model	BJO1BU1
Heat capacity	14000 J/K ~ 15000 J/K
Pressure endurance of oxygen bomb	20 MPa
Temperature measurement range	15 °C ~ 28 °C
Repeatability error	≤0.2% (Grade C)
Resolution	1.001 K
Measurement accuracy	≤ 60 J/g
Relative humidity	≤ 85%
Power supply	AC(220±10%)V, 50Hz
Total power consumption	≤150W
Dimension	600x480x460 mm
Optional accessory	Pellet press machine
Alt Name	Oxygen Bomb Calorimeter

APPLICATIONS

Petroleum Industry, Petrochemical Industry, Oil Industry

METERS PETROLEUM EQUIPMENT BJO1BV1

AUTOMATIC OXYGEN BOMB CALORIMETER

Meters of Petroleum Equipment measure the consistency of lubricating greases (Penetrometer) or determining their heat value which do not contain water, coal, paraffin and other combustible substance (Oxygen Bomb Calorimeter) or can trace low levels of free, emulsified and dissolved (Coulometric Karl Fischer Titrator)



Adopting semiconductor refrigeration to decide the refrigerating capacity according to the calorific value, the instrument can automatically adjust water temperature and keep water in a relative constant temperature range, realize the continuously and long time test requirement, and make sure the test result is correct. Using USB port, convenient to connect. One computer can control many sets of Oxygen Bomb Calorimeter. Adopting professional discharge water ports, more convenient and fast when the instrument drains away water or change the water. The electronic balance with communication function to share the data by the internet.

SPECIFICATIONS

Model	BJO1BV1
Old Model	BPTL-305
Pressure endurance of oxygen bomb	20 MPa
Measuring temperature range	5°C ~ 40°C
Temperature resolution	0.0001°C
RSD (Relative standard deviation)	≤0.1%
Test time period: main period	about 8 mins
Measuring range	5MJ/kg ~ 40MJ/kg
Measuring error	±60 J/g (Benzoic acid)
Accuracy	Better than GB/T213-2008 "The determination method of coal calorific value"
Ambient temperature	15°C ~ 35°C
Relative humidity	≤ 85%
Dimension	650x450x450 mm

Net weight	55 kg
Alt Name	Automatic Oxygen Bomb Calorimeter

APPLICATIONS

Petroleum Industry, Petrochemical Industry, Oil Industry



Biolab Scientific Ltd.

Trillium Executive Center, East Tower, 675 Cochrane Dr, Markham, Ontario L3R 0B8, Canada
Email: info@biolabscientific.com | Website: www.biolabscientific.com