



ACID AND ALKALI TESTER



www.labodam.com // info@labodam.com

Acid and Alkali Tester

Water Soluble Acid and Alkali Tester LAAT-A10

Labodam LAAT-A10 is deliberately fabricated to have high accuracy and easy operation mode. It is constructed as per ASTM-D664 “Test Methods for Water Soluble Acid and Alkali of Petroleum Products”.

Features

- ❖ Heating power can be adjusted continuously
- ❖ Accurate result
- ❖ Easy to control and operate
- ❖ Simple design

Applications

It is used to determine water soluble acid and alkali in the liquid petroleum products, additive, lubricating grease, wax and waxy products.

Specifications

Model No.	LAAT-A10
Graduated flask	100ml, 50ml
Conical flask	100ml
Separatory funnel	250ml
Ambient temperature	-10°C to +35°C
Relative humidity	≤85%
Test tube	Φ18mm*100mm
Acidometer Full scale	0 to 14.00pH
Acidometer Accuracy	±0.01pH
Heating power	100W to 1000W
Total power consumption	≤1200W
Power supply	AC220V±10%, 50Hz
Dimensions	570*540*260mm

Acid Number and Acidity Tester LAAT-A11

Labodam LAAT-A11 is designed as per ASTM D664-11a “Test Methods for Acid Number of Petroleum Products” and “Test Methods for Acidity of Gasoline, Kerosene, and Diesel oil”.

Features

- ❖ Heating power can be continuously adjusted
- ❖ Easy installation and operation
- ❖ Compact in size

Acid and Alkali Tester

Applications

It is used to determine acidity of gasoline, kerosene and diesel oil which don't add ethyl liquids and acid value of petroleum products.

Specifications

Model No.	LAAT-A11
Ambient temperature	≤35°C
Relative humidity	≤85%
Precision of titration tube	Scale division is 0.02ml
Total power consumption	≤1200W
Power supply	AC 220V±10%, 50Hz
Dimensions	830*290*370mm

Acid Number Tester LAAT-A12

Labodam LAAT-A12 is automated and controlled by microprocessor. It is designed and made as per the ASTM D664-11a "Test Methods for Acid Number of Petroleum Products".

Features

- ❖ Test procedures are robotically controlled by the microprocessor
- ❖ LCD blue display
- ❖ Noiseless operation
- ❖ Intuitive and simple
- ❖ Test data's are automatically printed
- ❖ Safe, reliable and delicate

Applications

It is used to determine acid number of transformer oil and turbine oil

Specifications

Model No.	LAAT-A12
Measurement range	0.001 to 0.999mg KOH/g
Resolution	0.001mg KOH/g
Repeatability	0.004mg KOH/g
Test accuracy	Acid number <0.1: ±0.005mg KOH/g; Acid number ≥0.1: 5% of displayed value
Ambient temperature	10°C~40°C
Relative humidity	<75%
Total power consumption	<100W
Power supply	AC 220V±10%, 50Hz
Dimensions	560*400*350mm, 70*310*250mm

Acid and Alkali Tester

Base Number Tester LAAT-A13

Labodam LAAT-A13 is composed of ZD-2 Automatic Potential Titrimeter and DZ-1 Titration Device. It is designed according to Industry Standard of Petrochemical SH/T0251-93 "Test Methods for Base Number of Petroleum Products"

Features

- ❖ Adopts principle of acid-alkali neutralization
- ❖ Wide measuring range
- ❖ High accuracy
- ❖ Easy operation

Applications

It is used to determine and calculate base number of sample based on acid-alkali neutralization principle, perchloric and acid potentiometric titration methods and potential changes to detect end point

Specifications

Model No.	LAAT-A13
Volumetric analysis	Titration condensation: 0.1 N; Controlling accuracy: ± 0.02 ml
Automatic acid titration	Titration condensation: 0.1 N; Controlling accuracy: ± 0.1 pH
Automatic potential control	Titration condensation: 0.1 N; Controlling accuracy: ≤ 10 mV
Ambient temperature	0~35 ⁰ C
Relative humidity	$\leq 85\%$
Temperature compensation	Manual compensation; 5~60 ⁰ C
Preset adjustment range of end point	pH 1 to 13 or $\pm 100\sim 1300$ mV
Preset controlling range fortitration	1~3pH or 100~300mV from end point
Power supply	AC 220V $\pm 10\%$, 50Hz



Labodam Equipment Ltd

18a Melton Road Leicester LE4 5EA
United Kingdom

www.labodam.com // info@labodam.com