



Mineral Oil Oxidation Stability Tester

LB-10MOS

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1. Introduction

Mineral Oil Oxidation Stability Tester LB-10MOS operates within a temperature control range of room temperature to 160°C. It features six individual flow meters for precise control of gas flow into each oxidation tube. Equipped with a gas pressure reducer to maintain consistent output pressure. Our tester utilizes a metal bath for even heating and constant thermal control. It includes a digital timer that allows setting and recording of test times for accurate results.

2. Features

1. Automatic pressure measurement
2. User-friendly and easy to operate
3. Digital timer for precise control
4. Complies with ASTM D2440 standard

3. Specification

Model No	LB-10MOS
Temperature Range	RT to 160°C
Temperature Accuracy	± 0.1°C
Sample Capacity	Tests up to 6 samples at the same time
Temperature Detection	Thermal resistor
Power Consumption	< 1100W
Power Supply	AC 220V ±10%, 50/60Hz.
Dimensions	630 × 500 × 750 mm
Weight	56 kg

4. Application

Mineral Oil Oxidation Stability Tester LB-10MOS is used for testing the oxidation stability of mineral-insulating oils. It is used in industries such as power, electrical, and laboratory testing.

5. Instrument Introduction

- The instrument is a desktop structure with a simple design. The specifications and dimensions of the test vessel meet the requirements of the ASTM D2440 standard.
- The heating device of the instrument adopts the heating method of a metal bath, with uniform heating and constant temperature. Since the metal aluminum alloy heater does not use oil and other media, it has the advantages of no smoke pollution, no leakage, no maintenance, and constant temperature stability.
- Equipped with a new type of gas pressure reducer, which can ensure that the output pressure remains unchanged when the gas cylinder pressure drops.
- Equipped with 6 test baths which can test one sample or up to 6 samples at the same time, convenient and flexible.
- Equipped with 6 flow meters which can respectively adjust and indicate the gas flow into the 6 oxidation tubes.
- Equipped with a digital timer for setting and recording the time of the test.

6. Installation

Working Condition

- The instrument should be placed on a flat and firm workbench, and air convection should be minimized in the environment.
- The use of this product may involve flammable materials and open flames (or devices that generate sparks) are not allowed to be closed during operation.
- The instrument should be placed in a dry and ventilated place when not in use.
- The power supply is a single-phase three-wire system and must have a good grounding terminal.

7. Operations

7.1 Preparation Before Test

- Before the test, please read the standards related to this test carefully. The relevant standards are ASTM D2440 Standard Test Method for Oxidation Stability of Mineral Insulating Oil, understand and familiarize yourself with the test methods, test procedures, and test requirements described in the standard.
- Prepare all kinds of test instruments and materials for the test according to the requirements specified in the standard.
- Check the working state of the instrument to make it conform to the working environment and working conditions specified in the manual.
- Check the power supply; There must be a good grounding terminal; check the shell of the instrument; It must be in good grounding condition.

7.2 Operation Method

- Turn on the power switch, the temperature control meter displays the temperature of the metal bath and wait for the metal bath to heat.
- Set the bath temperature point to the required value according to the needs of the test items.

7.3 Temperature Control Meter Setting

This instrument adopts the Omron E5CC-800 series temperature control meter, please refer to the instruction manual of the temperature control meter for specific use.

8. Accessories

Standard Accessories

Accessories	Quantity
Oxidation Tube	12 set
0.5°C Thermometer	1pc
Bath Cover	6pcs
1m Spare Silicone Tube	1pc
10 ml Soap Bubble Flow Meter	6pcs
10 m Copper Wire	1pc
Gauze No.220	1pc
Mechanical Mounting Rack	1unit
Winder	1pc
Conical Washer	2pcs
Drying Tube	1pc
Cylinder Connecting Pipe	1pc



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