



ROTATIONAL VISCOMETER LVM-D30

Rotational Viscometer LVM-D30 is a Brookfield rotational viscometer, adopted with advanced mechanical design technologies and manufacturing techniques. Features 20 ml sample cylinder with temperature control range of 45 to 200°C and rotation speed of 0.1, 0.2, 0.5, 1, 2, 5, 10, 20, 50, 100 and 200 rpm. With measurement range of 25 mPa·s to 1×10^7 mPa·s, this viscometer uses microcomputer technologies for temperature control, data collection and data process. Designed with LCD display, micro-printer and RS232 interface, it is a suitable equipment to determine absolute viscosity of newtonian liquids and apparent viscosity of non-newtonian liquid.

Features

- ❑ Brookfield rotational viscometer with advanced mechanical design technologies and manufacturing techniques
- ❑ 20 ml sample cylinder with temperature control range of 45 to 200°C
- ❑ Rotation speed of 0.1, 0.2, 0.5, 1, 2, 5, 10, 20, 50, 100 and 200 rpm
- ❑ Measurement range of 25 mPa·s to 1×10^7 mPa·s
- ❑ Microcomputer technology for temperature control, data collection and data process
- ❑ LCD display, real-time display of test data
- ❑ Micro-printer with needle printing output
- ❑ RS232 communication interface
- ❑ High-efficient, stable and reliable

Application

Rotational viscometer is used to measure the viscosity and flow properties of oil, asphalt, plastics, wax, paints, coatings, adhesives, cosmetics, shampoo, toothpaste, and to monitor batch consistency and quality control across chemical, material science, food and beverage industries etc.

Specifications

Model	LVM-D30
Measurement range	25 mPa.s to 1×10^7 mPa.s
Rotors	Rotor no. 21, 27, 28, 29 (total 4 pieces of spindles)
Rotation speed	0.1, 0.2, 0.5, 1, 2, 5, 10, 20, 50, 100 and 200 rpm
Temperature control range	45 to 200°C
Temperature control accuracy	$\pm 0.1^\circ\text{C}$
Sample cylinder	20 ml
Measurement error	$\pm 1\%$ (F.S)
Measurement mode	Automatic
Display	LCD
Print output	Needle printer
Interface	RS232
Relative humidity	$\leq 80\%$
Ambient temperature	5 to 35°C
Power supply	AC 220 V $\pm 10\%$, 50 Hz
Wooden box 01 dimension (L×W×H)	595×415×544 mm
Wooden box 01 gross weight	16.5 kg
Wooden box 02 dimension (L×W×H)	425×370×295 mm
Wooden box 02 gross weight	8.8 kg

Standard Accessories

Accessories no.	Accessories name
1	Viscometer head × 1 set
2	Instrument pedestal (with 3 adjustment bolts) × 1 set
3	Toothed rod × 1 pc
4	Auxiliary controlling case (with temperature controller and micro-printer) × 1 set
5	Heater × 1 pc
6	Spindle (No. 21, 27, 28, and 29) × 1 pc each
7	Connection hook and transition bolt × 1 pc each
8	Serial port wire × 1 pc
9	Heater connection wire × 1 pc
10	Sensor wire × 1 pc
11	Sample cylinder (with sample cylinder holder, sample cylinder cover, special forceps) × 1 pc each
12	Fuse (Φ5×20) 5 A × 3 pcs
13	PC communication CD × 1 pc

Optional Accessories

Accessories no.	Accessories name
1	Rotor No. 30