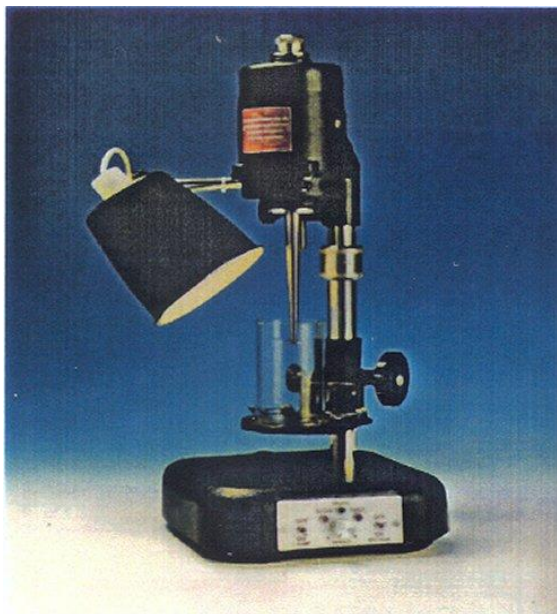


LATEX STABILITY TESTER

For the determination of the mechanical stability of natural or synthetic latex to BS6057 PART 3 SECTION 3.1 (ISO35) and BS6057 PART 3 SECTION 3.14 (ISO2006)



- Electronically speed controlled
- Closed loop
- Fully compensated voltage and loading
- Quartz referencing
- Sealed for life motor bearings
- Available in 110V or 230V
- Designed for easy operation

The Latex Machine has a highly reliable series wound motor which is electronically controlled and incorporates a feedback system to accurately maintain the selected speed. It comes complete with visual confirmation in the form of colored LEDs and is supported by a matt black aluminium bracket on a chrome plated column.

The glass (synthetic or perspex (natural) beaker) is retained on its aluminium table. Height is adjustable. The apparatus is mounted on hard sponge rubber pads set into the black stove-enamelled cast iron base. The unit is fully protected for use in tropical climates. Motor bearings are sealed for life.

Operating Instructions

Height Setting

The hand wheel (7) lowers the beaker from the paddle by rack and pinion movement. This enables the user to set the depth between the paddle and the base of the beaker to exactly 13mm. A distance piece is supplied with the spare parts. With the distance piece in position between the paddle and the beaker, the adjustable stop (5) is set by means of two screwed caps which prevent the table from being too high. It is not necessary to alter this until a new container is used. The container is held in position by two chromed plated phosphor bronze clips.

Speed Control

The speed is factory set to 14,000 RPM. When switched on, the electronic circuitry automatically brings the unit to the correct speed (green LED). The feedback circuit maintains this speed at 14,000 \pm 200 RPM, within the stated voltage range.

Note

The voltage temperature compensation control (11) provides slight adjustment in the event of drift due to excessive input voltage or change in temperature. It must only be altered in conjunction with a tachometer to reset the shaft speed (remove top end cap (1) to gain access to shaft end).

LATEX STABILITY TESTER

Maintenance and Spares List

Disconnect supply before attempting any work

MAINTENANCE

- Bearings** Sealed for life. Requires no further attention
- Brushes** Should be replaced when worn to 1/4" (6.3mm). Bed in new brushes carefully to the commutator diameter. Make sure brushes are inserted the correct way round. Brush life is approximately 250 running hours.
- Cleaning** The paddle (8) is detachable (R.H. thread) but should only be removed when absolutely necessary. When replacing, clean abutment faces to ensure true running.
- Fuse** Accessible by removing 4 x corner screws in base plate.
Fuse is mounted on P.C.B. attached to base plate.

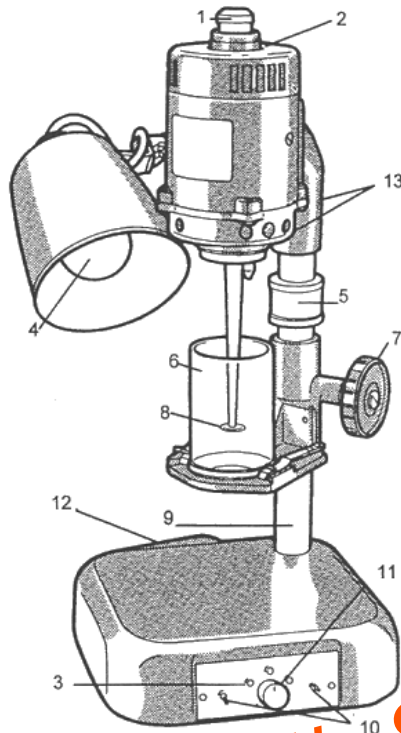
SPARES SUPPLIED WITH TESTER

- 2 x Beakers
4 x Brushes
1 x Fuse (ceramic type)
1 x 13mm paddle height setting piece

SPARE PARTS LIST (quote voltage required)

- Motor (Natural) c/w paddle
Motor (Synthetic) c/w paddle
Beaker (Natural) Perspex
Beaker (Synthetic) Glass
Brush (2 per motor)
Bearing – top
Bearing – bottom
Speed control assembly 200/250V
Speed control assembly 100/125V

LATEX STABILITY TESTER



Key

1. Chrome plated screwed end cap
2. Bearing caps
3. Speed indication LEDs
4. 60w SB fitting lamp
5. Adjustable stop (for beaker table)
6. Latex beaker (glass – synthetic, perspex – natural)
7. Moulded handwheel for table height adjuster
8. Stainless steel paddle to ISO dimensions
9. Chrome plated column
10. Lamp and motor switches (as indicated)
11. Voltage temperature compensation control

SCHEMATIC CIRCUIT DIAGRAM

