

Rotational Viscometer

This rotational viscometer is designed to measure the viscosity of fluids. The instrument utilizes a rotating spindle immersed in the fluid, measuring resistance to determine viscosity.



Overview

Precision Viscosity Measurement

This rotational viscometer is a precision instrument designed for determining the absolute viscosity of Newtonian liquids and the apparent viscosity of non-Newtonian liquids. Built to comply with industry standards for asphalt and bituminous mixture testing, it is ideal for analyzing asphalt, hot melt adhesives, paraffin, high polymers, and other industrial fluids. The device features a user-friendly interface, reliable performance, and requires only small sample volumes for accurate testing.

Performance Metrics

Measurement Range

100 mPa-s

Minimum Range

2000000 mPa-s

Standard Maximum Range

Measurement Error

±2% (F-S); ±3% (F-S) for No.30 spindle

Technical Specifications

Spindle Speeds

- 0.5
- 1
- 2
- 5
- 10
- 20
- 50

Included Spindles

No.21, No.27, No.28, No.29

Optional Spindle Available

No.30

Operating Environment

Ambient Conditions

| Parameter | Range |
|---------------------|----------|
| Ambient Temperature | 5°C~35°C |
| Relative Humidity | d 80% |

| | |
|------------------------------|---------------------------|
| Temperature Control Range | Room temperature to 200°C |
| Temperature Control Accuracy | 0.1 °C |
| Sample Chamber Volume | 20 ml |
| Power Supply | AC 220V±10%, 50 Hz |