AZA LAB / MATERIAL TESTING EQUIPMENT

LABORATORY HIGH TEMPERATURE BROOKFIELD ROTATIONAL VISCOMETER

AZA1184 | TECHNICAL DATASHEET



ASTM D4402 • ASPHALT BINDER VISCOSITY TESTING

PRODUCT OVERVIEW

The AZA1184 Laboratory High Temperature Brookfield Rotational Viscometer is designed to measure the rotational viscosity of asphalt binders at elevated temperatures in accordance with ASTM D4402.

The instrument offers selectable rotational speeds, a broad viscosity measurement range and a high-temperature operating capability. Computer-based full-range linear calibration supports sensitive measurement and reliable operation.

KEY CAPABILITIES

- Viscosity measurement range: 50–2,000,000 mPa·s
- Selectable rotational speeds: 0.5–100 rpm (18 settings)
- Operating temperature: ambient +10 °C to 250 °C
- Measurement error: ≤ ±2% of full range (supplier-stated; confirm basis)
- Supplied spindle numbers: 21, 27, 28 and 29
- Digital display of viscosity, temperature, speed and spindle number
- RS232C data interface

APPLICATIONS

High-temperature viscosity determination for asphalt binder quality control, pavement materials testing and research laboratories.

TECHNICAL SPECIFICATIONS

01 / MEASUREMENT & CONTROL SPECIFICATIONS

PARAMETER	SPECIFICATION
Model	AZA1184 — Laboratory High Temperature Brookfield Rotational Viscometer
Test standard	ASTM D4402
Measuring range	50–2,000,000 mPa·s
Measuring error	≤ ±2 (full range; unit/basis not specified)
Rotational speed selections	0.5 / 1 / 2 / 2.5 / 4 / 5 / 10 / 15 / 20 / 25 / 30 / 40 / 50 / 60 / 70 / 80 / 90 / 100 rpm
Temperature range	Room temperature +10 °C to 250 °C
Communication interface	RS232C
Supplied rotors / spindles	No. 21, 27, 28 and 29
Displayed information	Viscosity value, temperature, rotation speed, rotor number
Calibration	Computer-based linear calibration across full range (supplier-stated)

02 / DISPLAY & COMMUNICATION

Displayed values: viscosity, temperature, rotational speed and spindle number. Data interface: RS232C.

03 / STANDARD SUPPLY

Supplied spindles: No. 21, 27, 28 and 29.

CONTACT

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