HIGH PERFORMANCE ROTATIONAL VISCOMETER

Apparent viscosity of unfilled asphalt is evaluated by a rotational viscometer which measures the torque generated by a calibrated spindle rotating at a selected speed into a bitumen sample heated at precise temperature in the range between ambient temperature to 260°C. The measured relative resistance to rotation is converted, by a factor, in viscosity units, cP or mPa·s.

HIGH PERFORMANCE ROTATIONAL VISCOMETER

SPECIFICATION

Precision: ± 1% of full scale

- Resolution: 1 For viscosity equal to or above 10.000 cP: 1
- Repeatability: 0.2%
- Thermometer features:
- Temperature margins: 0o C to +100o C 32o F to 212.0 o F
- Resolution: 0.1o C / 0.1722 o F
- Precision: +/- 0.1 o C
- Type of probe: PT100
- Supplied at 100-240 VAC, 50/60 Hz Shipping weight: approx. 8 kg

Viscosity ranges (mPa•s)

Spindle models

TR8	50 – 170 K
TR9	250 – 830 K
TR10	500 – 1.7 M
TR11	1 K – 3.3 M

STANDARDS

- ASTM D4402
- AASHTO T316
- EN 13302
- ASTM D2196

FEATURES

- Selected speed r.p.m.
- Selected spindle SP
- Viscosity reading cP (mPa·s) or cSt
- Percentage of full scale %
- Sample temperature °C or F
- Shear Rate (with coaxial spindles) SR (s -1)
- Shear Stress (with coaxial spindles) SS (N/m2)
- Density (introduced by the user) g/cm3
- Viscosity reading: dynamic viscosity (cP or mPa·s) or kinematics viscosity (cSt).
- Unit converter SI to CGS.
- Program features:
- Time to torque & Time to stop
- 9 working memories
- Customizable speed options
- Multistep
- Ramp
- AUTO-TEST: automatical internal viscosimeter checking
- AUTO-RANGE: full scale range for combination spindle speed.
- Temperature reading by PT100.
- User-enabled viscosity and temperature calibration.
- 10 language options.

ACCESSORIES

81-PV0118/T

Temperature control unit for rotational viscometer. Temperature range from ambient plus 5°C to 300°C. 220-240V/50-60Hz/1Ph.

81-PV0118/TZ

Temperature control unit for rotational viscometer. Temperature range from ambient plus 5°C to 300°C. 110V/60Hz/1ph

81-PV0118/2

Aluminum disposable test chamber

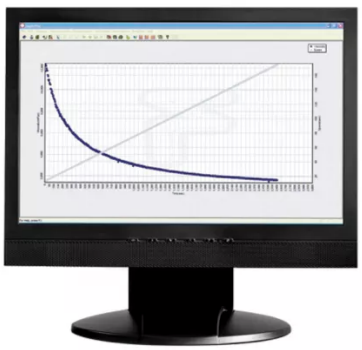
81-PV0118/3

Stainless steel reusable test chamber

81-PV0118/4

Set of special spindles for APM and thermosphere (TR8, TR9, TR10, TR11) Range: "R": (40 - 400.000) cP, "H": (2 - 32.000) Poise Material: Stainless steel. 316 Suitable for viscometer R yH

ORDERING CODE

81-PV0118/B

Rotational Viscometer, high performance version. 100-240V/50-60Hz/1ph.