

DATA SHEET

Standard Rotational Viscometer



Rotational viscometer 81-PV0118/C

General description

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.

Rotary viscometer matches ASTM D2196, ASTM D4402 and AASTHO T316 requirements.

Main features

- Data displayed: selected speed, selected spindle, viscosity reading, percentage of full scale
- Relative and absolute viscosity
- Unit converter SI to CGS
- AUTO_TEST with sound and visual malfunction alarm
- AUTO-RANGE function
- User-enabled calibration
- 10 languages options
- Repetability: 0.2%
- Accuracy 0,1% of full scale

Standards

- ASTM D4402
- AASTHO T316
- EN 13302
- ASTM D2196

DATA SHEET

Specifications

Viscosity range (cP): 100 – 13.000.000

Rotational speed range (r.p.m.): 0.3 – 100

Selectable speeds: 18

Precision: +/- 1% fs

Resolution:

Using low viscosity adapter: 0.01

For lower than 10.000 viscosity cP: 0.1

For viscosity equal to or above 10.000 cP: 1

Repeatability: 0.2%

	<i>Viscosity ranges (mPa*s)</i>
Spindle models	
TR8	50 – 170 K
TR9	250 – 830 K
TR10	500 – 1.7 M
TR11	1 K – 3.3 M



Products

81-PV0118/C

DATA SHEET

Rotational Viscosimeter, standard version. 100-240V/50-60Hz/1ph



Accessories and consumables

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 y H