

SAYBOLT, REDWOOD & BITUMEN VISCOMETER BATH

83201-2 SAYBOLT-REDWOOD VISCOMETER BATH

ASTM D88; E102; IP 70 (obs); BS 434; AASHTO T72; FTM 791 304

- 2 cup capacity
- Saybolt, Redwood or Bitumen viscometer kits available
- Ambient to 250°C (482°F)
- Stability $\pm 0.03^\circ\text{C}$ up to 150°C ($\pm 0.1^\circ\text{C}$ above 150°C)
- 14 litre oil filled bath
- 1000W heater
- Cooling coil

An oil filled bath designed to heat two sample filled viscometer cups and then maintain them at a constant temperature while the flow time is measured.

The 14 litre bath has a temperature range of ambient to 250°C (482°F) with a stability of $\pm 0.03^\circ\text{C}$ (± 0.1 above 150°C). It is heated by a thermostir unit with a stand-alone digital temperature controller. A fine temperature adjustment control is fitted to the thermostir allowing very accurate temperature to be set. An integral cooling coil, when connected to a cold water supply, provides precise control when the set temperature is near the ambient temperature of the laboratory. The bath is fitted with a fail-to-safe thermal cut-out and a drain tap.

Viscosity kits are available for Redwood No.1, Redwood No.2, Saybolt, and Bitument tests. Each kit contains two sets of flow cups and any additional components (except thermometers and a stopwatch) to carry out the relevant test.

SUPPLIED WITH: remote temperature controller, mains leads, interconnection lead and instruction manual.

Note: Requires one of the viscosity kits listed in accessories.



83201-2 and Accessories

ACCESSORIES - Viscometer Bath

REQUIRED

- 22750-2** DIGITAL STOPWATCH, hand-held, 0.1s resolution, (for details see page 141).
- 83250-0** SAYBOLT VISCOSITY KIT (D88), comprises Cup Adaptor (qty 2), Saybolt Viscometer Cup (qty 2), Universal Orifice Tip (qty 2), Withdrawl Tube, Thermometer Support (qty 2), Filter Funnel, 60ml Receiving Flask (qty 2), Displacement Ring (qty 2), Cover (qty 2), Spirit Level (qty 2).
OR
- 83253-0** REDWOOD No. 1 VISCOSITY KIT (IP 70), comprises No. 1 Cup Adaptor (qty 2), Redwood No. 1 Viscometer Cup (qty 2), Clip (qty 2), Kohlrausch Flask (qty 20), Cup Cover (qty 2), Spirit Level (qty 2).
OR
- 83255-0** REDWOOD No. 2 VISCOSITY KIT (IP 70, BS 434), comprises Redwood Adaptor Key, IP 70 Viscometer Cup (qty 2), BS 434 Viscometer Cup (qty 2), Clip (qty 2), Kohlrausch Flask (qty 20), Cup Cover (qty 2), Spirit Level (qty 2).
OR
- 83257-0** BITUMEN VISCOSITY KIT (E102), comprises Cup Adaptor (qty 2), Bitumen Viscometer Cup (qty 2), Universal Orifice Tip (qty 2), Withdrawl Tube, Thermometer Support (qty 2), Filter Funnel, 60ml Receiving Flask (qty 2), Displacement Ring (qty 2), Cover (qty 2), Spirit Level (qty 2).
- 94633-0** BATH OIL, 20 litres, for filling viscometer baths in the temperature range of ambient to 80°C .
OR
- 94635-0** BATH OIL, 20 litres, for filling viscometer baths in the temperature range of 80 to 120°C .
OR
- 94632-0** SILICONE BATH OIL, 20 litres, for filling viscometer baths in the temperature range of 100 to 150°C .

THERMOMETERS:

For ASTM D88:- ASTM17F/17C or ASTM18F/18C or ASTM19F/19C or ASTM20F/20C or ASTM21F/21C or ASTM22F/22C

For ASTM E102:- ASTM77F or ASTM78F or ASTM79F or ASTM80F or ASTM81F or ASTM108F or ASTM109F

For IP 170:- IP8F or IP8C or IP9F or IP9C or IP10F or IP10C

For BS 434:- BS110C/110

*Note: ASTM D88 covers Saybolt Universal and Saybolt Furl viscosities of petroleum products in the temperature range 21 to 99°C .
ASTM E102 covers Saybolt Furl viscosity in the temperature range 121 to 232°C*

SPECIFICATIONS

Temperature Range:	Ambient to 250°C (482°F)
Temperature Stability:	± 0.03 up to 150°C (302°F) ± 0.1 above 150°C (302°F)
Capacity:	14 litres
Bath Fluid:	Oil
Test Positions:	2
Viscosity Kits Accepted	Redwood No.1 Redwood No.2 Saybolt Bitumen
Voltage:	110/120V, 50/60Hz 220/240V, 50/60Hz
Power:	1.1kW
Size (HxWxD):	79 x 49 x 31cm
Weight:	20kg

ALSO AVAILABLE FROM SETA;

22620-2 SETA REDWOOD NO. 1 VISCOMETER

IP 70 (obs)

23210-2 SETA TAR VISCOMETER

IP 72; BS 2000 Part 72; STPTC RT2 and RT3;
NF T66-005