

KV-10 Viscometer Bath 84300-3

Kinematic Viscosity in Petroleum Products

ASTM D446; DIN EN ISO 3104; ISO 3104; ASTM D2270; ASTM D445; IP 71; BS 2000-71-2 & ISO 3105; BS EN 12595 & BS 2000-319; IP 226; IP 319; DIN 51 366; DIN 51 562; ASTM D2170

- Temperature range ambient to 150 °C
- Stability ± 0.02 °C up to and including 100 °C, ± 0.03 °C above 100 °C
- Accommodates up to 10 viscometer tubes
- Digital display with 0.01 resolution
- Oil, silicone fluid or water filled
- Low liquid level and over temperature protection
- Integral back lighting
- Double wall glass front panel reduces heat loss



Petroleum • Chemicals • Solvents

Kinematic Viscosity

Kinematic viscosity is a key property for fuels and lubricants. Kinematic viscosity is determined by measuring the time it takes for a sample to flow through a glass capillary viscometer at a known constant temperature. Kinematic viscosity is extremely temperature sensitive and as such an accurate stable temperature controlled bath is essential.

Most fuel specifications include viscosity at a specified temperature. Viscosity in fuels determines how well the fuel will pump to the engines. For lubricants, kinematic viscosity determines the ability of a lubricating oil to create and maintain lubrication films between moving parts. Poor lubricant performance causes wear and overheating. Kinematic viscosity measurements enables the calculation of viscosity index. Viscosity index is an important parameter which describes the relationship between viscosity and temperature for a given lubricant.

KV-10 Viscometer Bath

The Seta KV-10 gives users a high quality, robust solution for kinematic viscosity determinations. Ultra precision temperature stability and uniformity is achieved with an integrated heating and stirring system. All internal components are made of stainless steel construction to ensure long term durability. The large 40 Litre capacity ensures minimum temperature recovery time after loading the bath, improving sample throughput.

The bath is equipped with a toughened glass front window, easily accessible drain valve, integral back lighting, top plate and provision for reference thermometers and attachments.

Key Features

- Easy accessible drain valves
- 40 Litre bath capacity minimising temperature recovery time
- Integrated heating and stirring system
- Stainless steel internal components providing long term durability
- Positions for reference thermometers
- Digital display with 0.01 resolution

Optional Accessories

- 22750-3 Digital stopwatch
- 23157-0 Viscometer tube holder for Ubbelodde & suspended level
- 23158-0 Viscometer tube holder for Cannon Fenske
- 23159-0 Viscometer tube holder for U-tube reverse flow
- 84008-0 Bench viscometer stand
- 97100-0 Viscometer tube cleaner
- ASTMST127C Thermometer

Calibration and Verification

- 99851-0 MTVM – Gas Oil 500 mL
- 99852-0 MTVM – Fuel Oil 500 mL
- 99853-2 MTVM – Lubricating Oil 500 mL

Technical Specifications:

Temperature Range:	Ambient to 150°C (302°F)
Temperature Stability:	±0.02 up to and including 100 °C, ±0.03 above 100 °C
Tube Capacity:	up to 10
Bath Fluid:	Oil, silicone fluid or water
Bath Capacity:	40 Litres
Voltage/Power:	220/240 V, 50 Hz / 2.2 kW
Size (HxWxD):	410 x 630 x 380 mm
Weight:	25 kg

Supplied with: 10 covers for test wells, mains lead and instruction manual. Please note, viscometer tubes must be purchased as an additional accessory.