

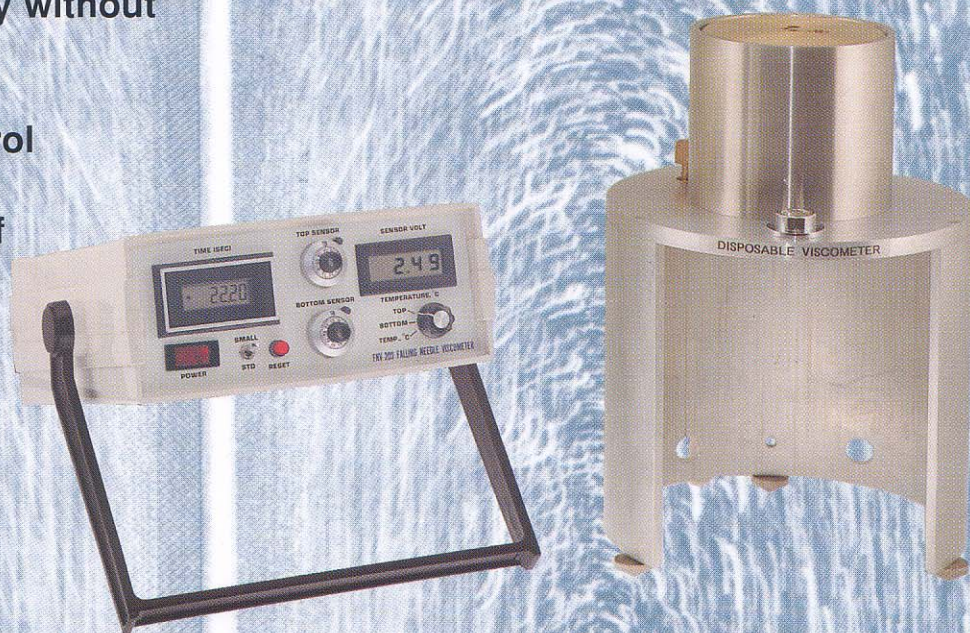
Viscosity

Disposable **VISCOMETER**

DV-100

A New Instrument for the Rapid and Accurate Determination of the Viscous Properties of Newtonian and Non-Newtonian Fluids.

- Disposable Sample Tube and Needle
- No Instrument Cleaning
- Measures Absolute Viscosity without Instrument Calibration
- Accurate Temperature Control
- Large Temperature Range of Fluids
- Automatic Falling Time Measurements to 0.001 Sec.
- Better than One Percent Accuracy and Repeatability



STONY BROOK SCIENTIFIC, LTD. (SBS)

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DV-100

The Disposable Viscometer consists of a main system and a disposable sample insert tube filled with the liquid of which the viscosity is to be determined. Viscosity of the sample can be determined by measuring the time of fall of a disposable needle through a predetermined distance of the fluid held in a sample insert tube. The falling time is measured automatically by means of Hall sensors and a magnet in the

Specifications

- Viscosity Range: 1 to 10^6 mPa · s (cP) (outside this range consult SBS)
- Temperature Range: -40 to 100°C
- Accuracy and Repeatability: better than 1% Test Sample Volume: Approx. 4.5 cm³ (outside this range consult SBS)
- Needle: Metal or Teflon
- Needle Densities: up to 8 g/cm³
- Total Instrument Weight: 7.3 kg (16 lbs)

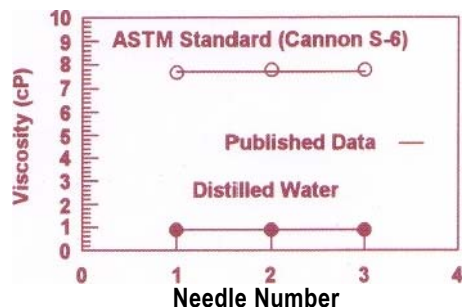
Special Features

- Disposable Sample Tube and Needle
- No Instrument Cleaning
- Minimal Disturbance of Sample's Mechanical Structure and Particle Size Distribution with Gentle Needle Passage

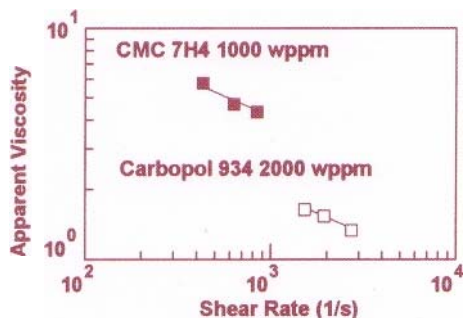
Applications

Adhesives, Aerosols, Automobile Fluids, Biomaterials, Coal Slurries, Coatings, Colloids, Cosmetics, Creams, Dairy Products, Detergents, Dispersions, Emulsions, Fertilizers, Foams, Fuels, Gels, Grease, Honey, Inks, Ketchup, Latex, Lubricants, Mayonnaise, Milk, Oils, Ointments, Paints, Petroleum, Polymers, Proteins, Pulp, Resins, Shampoos, Slurries, Soaps, Solutions, Surfactants, Suspensions, Varnish and many more.

Typical Disposable Viscometer Measurements



Viscosity measured by using the disposable viscometer (DV) compared to ASTM standard (Cannon S-6) and distilled water at 25°C



Apparent viscosity vs. Shear rate measured by the disposable viscometer for Carbopol and CIVIC solutions at 25°C

Schematic of DV

