

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
- Absolute Viscosity Measurements without Instrument Calibration
- No Instrument Cleaning
- Accurate Temperature Control
- Large Temperature Range of Fluids
- Automatic Falling Time Measurements to 0.001 Sec.
- Data Output to PC and Printer
- Better than One Percent Accuracy and Repeatability



Also available:
Multi-Sample
Preheating Block



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E-Mail: info@stonybrooksci.com

DV-100

Stony Brook Scientific is proud to announce a breakthrough in viscometer technology. Viscosity measurement has never been so easy!

The DV-100 Disposable Viscometer with disposable tube greatly reduces testing time because instrument cleaning is not required. The DV-100 offers an unparalleled combination of performance and versatility with the advantages of temperature control and data output to both PC and printer.

The DV-100 consists of a main system and a disposable (or reusable) 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 needle through a predetermined distance of the fluid held in the sample insert tube. The falling time is measured automatically by means of Hall sensors and a magnet in the needle.

SPECIFICATIONS

- Viscosity Range: 0.7 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. 4.0 cm^3
-outside this range consult SBS.
- Needle: Metal
- Needle Densities: up to 130 g/cm^3
- Total Instrument Weight: 7.3kg (16 lbs)

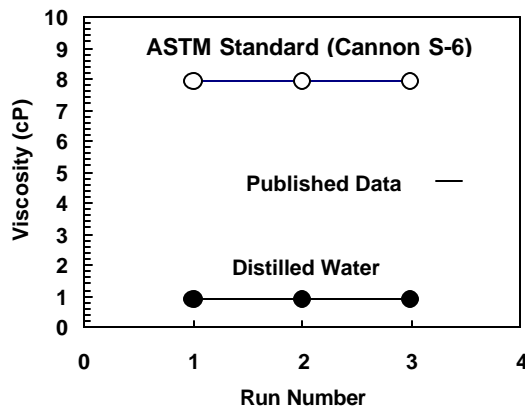
SPECIAL FEATURES

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

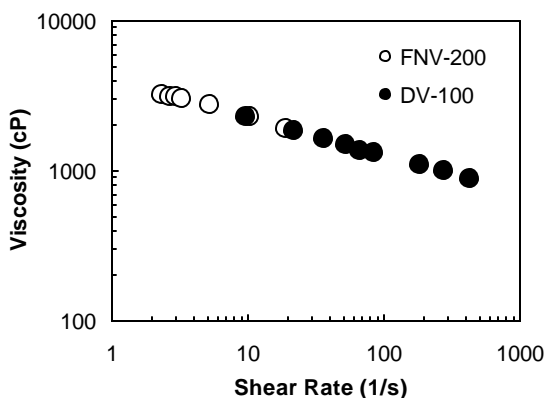
APPLICATIONS

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-100) compared to ASTM standard (Cannon S-6) and distilled water at 25°C



Viscosity measured by using the disposable viscometer (DV-100) compared to the data measured by the falling needle viscometer (FNV-200) for ointment at 25°C

Schematic of DV-100

