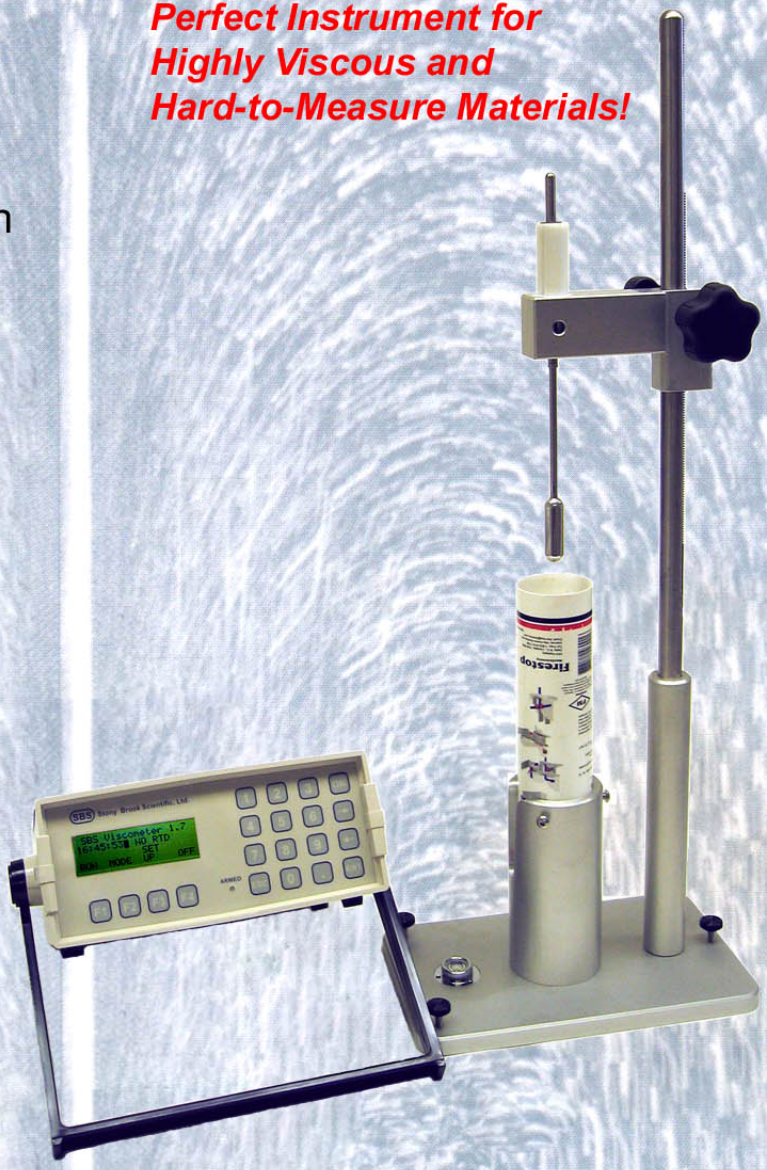
Viscosity

Caulking VISCOMETER

CV-100

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

Perfect Instrument for Highly Viscous and Hard-to-Measure Materials!



- **Disposable Sample (Caulking) Tube**
- **Any Type and Size of Sample Container with an Optional Adapter**
- **No Sample Tube Cleaning**
- **Absolute Viscosity Measurement without Instrument Calibration**
- **Minimal Disturbance of Sample's Mechanical Structure**
- **Automatic Falling Time Measurements to 0.001 Sec.**
- **Data Output to PC and Printer**
- **Accurate and Large Temperature Control**
- **Quick and Easy Viscosity Measurement**

STONY BROOK SCIENTIFIC, LTD (SBS)
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CV-100

The CV-100 Caulking Viscometer is a compact but heavy-duty instrument that is ideal for highly viscous and hard-to-handle materials on the production floor or in the QC lab. The CV-100 with disposable tube greatly reduces testing time because instrument cleaning is not required.
Viscosity of the sample is determined by measuring the falling time of a controlled needle through a predetermined distance of the fluid held in a sample tube. The falling time is measure automatically by means of Hall sensors and a magnet in the weight holder.
Like all other SBS viscometers, the CV-100 combines economy, ease of operation, accuracy, reliability, and versatility. High quality of instrument guarantees reliable performance for a long life. Small sample size and temperature control are also available. Absolute accuracy is better than 2% without any instrument calibration.

SPECIFICATIONS

- Viscosity Range: 10 to 10^9 mPa.s (cP)*
- Temperature Range: -40 to 150°C*
- Accuracy and Repeatability: Better than 2%*
- Needle: Metal
- Needle Densities: 6 to 300 g/cm^3
- Total Instrument Weight: 4.5 kg (10 lb)

* Outside this range consult SBS.

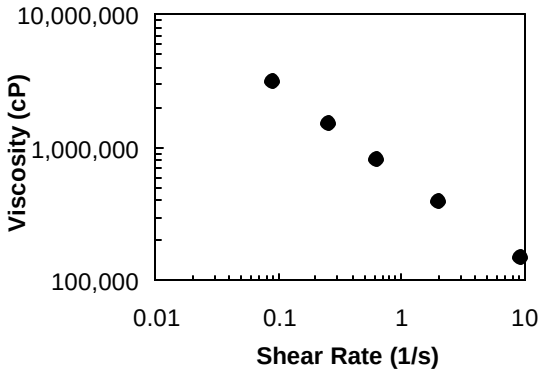
SPECIAL FEATURES

- Disposable Sample Tubes
- No Sample Tube Cleaning
- Minimal Disturbance of Sample's Mechanical Structure and Particle Size Distribution with

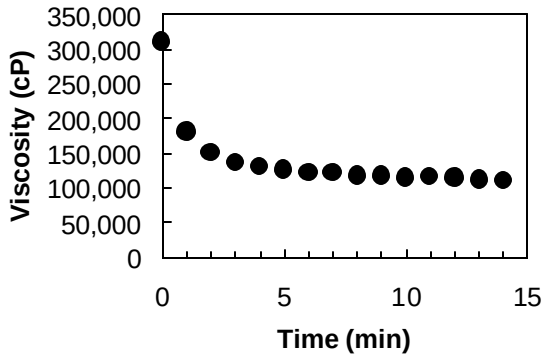
APPLICATIONS

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 Caulking Viscometer Measurements



Viscosity measured by using the caulking viscometer (CV-100) for a caulking at 24.2°C



Fresh (0 min) vs. disturbed caulking viscosity measured every minute by using the caulking viscometer (CV-100) at 22.8°C

Schematic of CV-100