Consistometer

Verify consistency, viscosity, and flow rate of viscous material

– Meets military specification R-81294B for paint manufacturing

Use this consistometer to determine the consistency of viscous materials by measuring the distance that the material flows under its own weight in a given time interval. Consistometer checks against consistency, viscosity, and flow rate standards. Ideal for predetermining product formulas to standardize production lots.

Consistometer requires only 75 mL of sample for measurement. Engraved graduations in 0.5-cm divisions ensure accurate results; spring-loaded gate prevents premature sample flow. Leveling screws and built-in spirit level help achieve repeatable results. Stainless steel construction prevents corrosion.

Sample size	Graduations	Dimensions	Catalog number	Price
75 mL	0.5 cm	14"L x 3½"W x 5½"H (35.6 x 8.9 x 14.0 cm)	GH-59950-00	

Ford Viscosity Cups

Take easy, accurate readings

– ±2% production tolerance

Simply pour your sample into the cup and measure the time it takes for the liquid to flow through the orifice until the first break in the liquid stream. Use the included table to convert the elapsed time to centistokes (cSt).

The cups are made from solid aluminum; the orifice is made from brass. All the cups are calibrated to NIST-traceable oils. NIST-traceable cups are available with an NIST-traceable calibration report supplied by the manufacturer. Cups conform to ASTM D333, D365, and D1200.

Cup number	Range (cSt)	Catalog number	Price
Standard models			
2	25 to 120	GH-08711-00	
3	37 to 231	GH-08711-10	
4	70 to 370	GH-08711-20	
NIST-traceable models			
2	25 to 120	GH-08711-05	
3	37 to 231	GH-08711-15	
4	70 to 370	GH-08711-25	

GH-08711-50 **Ford cup accessory kit** includes cover glass for removing excess sample from cup, bubble level for leveling cup and stand, stainless steel beaker, and package of cleaning swabs

GH-08711-60 **Ford cup stand**

Cole-Parmer® Gilmont® Falling Ball Viscometers

No need for power—check viscosity anywhere

– Get readings and quality control checks in food or other production lines easily
– Easy-to-read design features red reference lines against white background
– Reliable, reproducible results from ±0.2 to ±1.0%
– Conforms to ASTM D1343-93

Easily determine viscosity with these falling ball viscometers—simply release the ball and measure descent time. Viscometers are made of precision-bore glass tubing with stabilizing beads, Viton® O-ring, and Delrin® acetal parts. Require a 7-mL sample volume.

What's included: One glass and one 316 stainless steel high-precision ball. For higher viscosity ranges, use the optional tantalum ball (sold separately).

Model	Ball	Viscosity range	Catalog number	Price
GV-2100	Glass	0.2 to 2	GH-08701-00	
	SS	1 to 10		
	Tantalum†	2 to 20		
GV-2200	Glass	2 to 20	GH-08702-00	
	SS	10 to 100		
	Tantalum†	20 to 200		
GV-2300	Glass	20 to 200	GH-08702-10	
	SS	100 to 1000		
	Tantalum†	200 to 2000		

†Tantalum ball not included; order separately below.

GH-08702-50 **Tantalum ball,** 0.25" dia

Viscosity Cups

Get precise measurements affordably

– Stainless steel cup and handle
– Orifice is machined to ensure the length of the orifice and a symmetrical efflux stream
– Cups conform to ASTM 816, D1084, and D4212
– ±3% production tolerance
– Optional aluminum carousel stand holds up to five cups for easy storage

To take a measurement, simply scoop the test liquid into the cup; the liquid will stream out of the opening on the bottom. Measure the time until the first break in the flow of liquid. A conversion table supplied with each cup will tell you viscosity in centistokes from the elapsed time.

Model	Cup number	Range	Catalog number	Price
EZ1	1	10 to 36 cSt	GH-08700-00	
EZ2	2	19 to 156 cSt	GH-08700-10	
EZ3	3	64 to 596 cSt	GH-08700-20	
EZ4	4	79 to 784 cSt	GH-08700-30	
EZ5	5	161 to 1401 cSt	GH-08700-40	

GH-08700-70 **Carousel stand** holds five cups