

Falling Ball Viscometer

...Newtonian measurements made simple and easy!

The AMETEK Brookfield Falling Ball Viscometer uses the simple — but precise — Höppler principle to measure the viscosity of Newtonian liquids by measuring the time required for a ball to fall under gravity through a sample-filled tube.

Complies with DIN 53015

Set of six balls to test a wide variety of samples

Connection to circulating bath for temperature control of sample

Temperature Probe

Pivot bearing allows for quick and easy tube rotation for repeat test

Model KF40 (shown) variable angle (50°, 60°, 70° & 80°) for non-Newtonian fluids

Model KF30 (also available) fixed angle

Viscosity Range: 0.5 to 70,000 mPa•s (cP)

Accuracy: 0.5% to 2.0% (depending on ball used)



What's Included?

- Instrument
- Set of six (6) balls
- Temperature Probe
- Carrying Case

Optional Accessories

- Temperature Bath (p33-35)
- Viscosity Standards (p52)
- Special Temperature Probes

Applications

- Beverages
- Coatings
- Cosmetics
- Detergents
- Food
- Paint
- Petroleum Products
- Pharmaceuticals
- Polymers
- Soap



KF40 with Bath

Use with a AMETEK Brookfield Circulating Bath permits rapid temperature control of sample for more accurate and repeatable results.

SPECIFICATIONS

Viscosity Range:	0.5 mPa•s (cP) to 70,000 mPa•s (cP)	
Accuracy:	0.5% - 2.0% depending on choice of ball	
Ball set Material of Construction:		
	Balls 1 and 2:	Boron Silicate Glass
	Balls 3 and 4:	Nickel-iron
	Balls 5 and 6:	Steel
Ball Diameter:	11.0 mm to 15.81 mm	
Fall Time of Ball in Measurement:	30 to 300 seconds**	
Length of Measurement Zone in the Tube:	100 mm	
Operating Temperature Range:	-5°C to +150°C	
Sample Tube Volume:	40mL	
Viscometer Dimensions:	180 x 220 x 330 mm	

**Falling times greater than 300 seconds allow measurement of liquids above 70,000 mPa•s (cP)