

# Brookfield brings viscoelasticity measurements within your reach!

# RSO<sup>TM</sup>

## OSCILLATORY RHEOMETER

- Quick Test functionality allows for testing within minutes
- Stand-alone mode with easy-to-use interface makes it simple for QC Users
- Viscoelastic measurements provide R&D users with advanced testing capabilities
- Flexibility allows cone/plate and concentric cylinder in a single instrument



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# RSO™

## OSCILLATORY RHEOMETER

Cone/Plate & Plate/Plate and Coaxial Cylinder DIN Geometry options

### FEATURES

**Controlled shear stress/shear rate** operation makes it easy to study static yield to flow curve and visco-elastic behavior

**User-friendly Touch Screen** and graphical display for stand-alone operation

**Quick Connect Coupling System** for easy spindle attachment

**Instrument flexibility** allows for cone/plate and concentric cylinder in one

**Very Small Sample Size** permits rapid test set up and clean up

**Spindle Barcode** for auto spindle recognition

**Standalone simplicity** for QC users

**Automatic Gap Setting** for quick and easy gap setting

**Rapid Temperature Control** of plate with Peltier option for quick profiling of viscosity vs. temperature

**Optional Rheo3000 Software** allows for PC control and data acquisition/analysis of multiple test files



### WHAT'S INCLUDED?

**Instrument** with Peltier temperature control for sample plate

**Convenience Package** (cleaning cloth, screen protector)

**Air Filtration System** is added to all orders unless specifically removed

### OPTIONAL ACCESSORIES

Choice of cone or plate spindle geometries: *at least one is required*  
 Rheo3000 Software  
 Viscosity Standards  
 Choice of Thermal Barrier  
 • Teflon (0° - 200°C)  
 • Stainless Steel (0° - 200°C+)  
 Coaxial Cylinder  
 • Bob (spindle) and Chamber  
 • FTKY3 Water Jacket for Temperature Control  
 Temperature Bath

### MODEL SPECIFICATIONS

Min Torque	5µNm
Max Torque	100mNm
Resolution of Torque	0.02µNm
Bearing	Air bearing
Resolution of deformation	1.25µrad
Min speed	0.001rpm
Max speed	1500rpm
Min frequency	0.001 Hz / 0.006 rad/s
Max frequency	20 Hz / 126 rad/s
Measurement system	Cylinder/Cone Plate
Temp control	Peltier or bath option
Min Temp.	0° C
Max Temp.	180° C
Size WxHxD	360x600x340mm
Weight	31kg

Water Jacket



Coaxial Cylinder Spindles



Choice of cone spindles and plate spindles accommodates various sample types. Plate spindles can be used for highly-filled or very viscous samples.



Thermal Barrier reduces the effects of heat transfer to the environment. Two part chamber provides thermal isolation of the measurement zone.

