

Brookfield brings viscoelasticity measurements within your reach!

RSO™

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



BROOKFIELD
AMETEK®



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 W×H×D	360×600×340mm
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.

