

YR-1 Yield Stress Rheometer

a low-cost QC tool to enhance material characterization

Displayed Information:

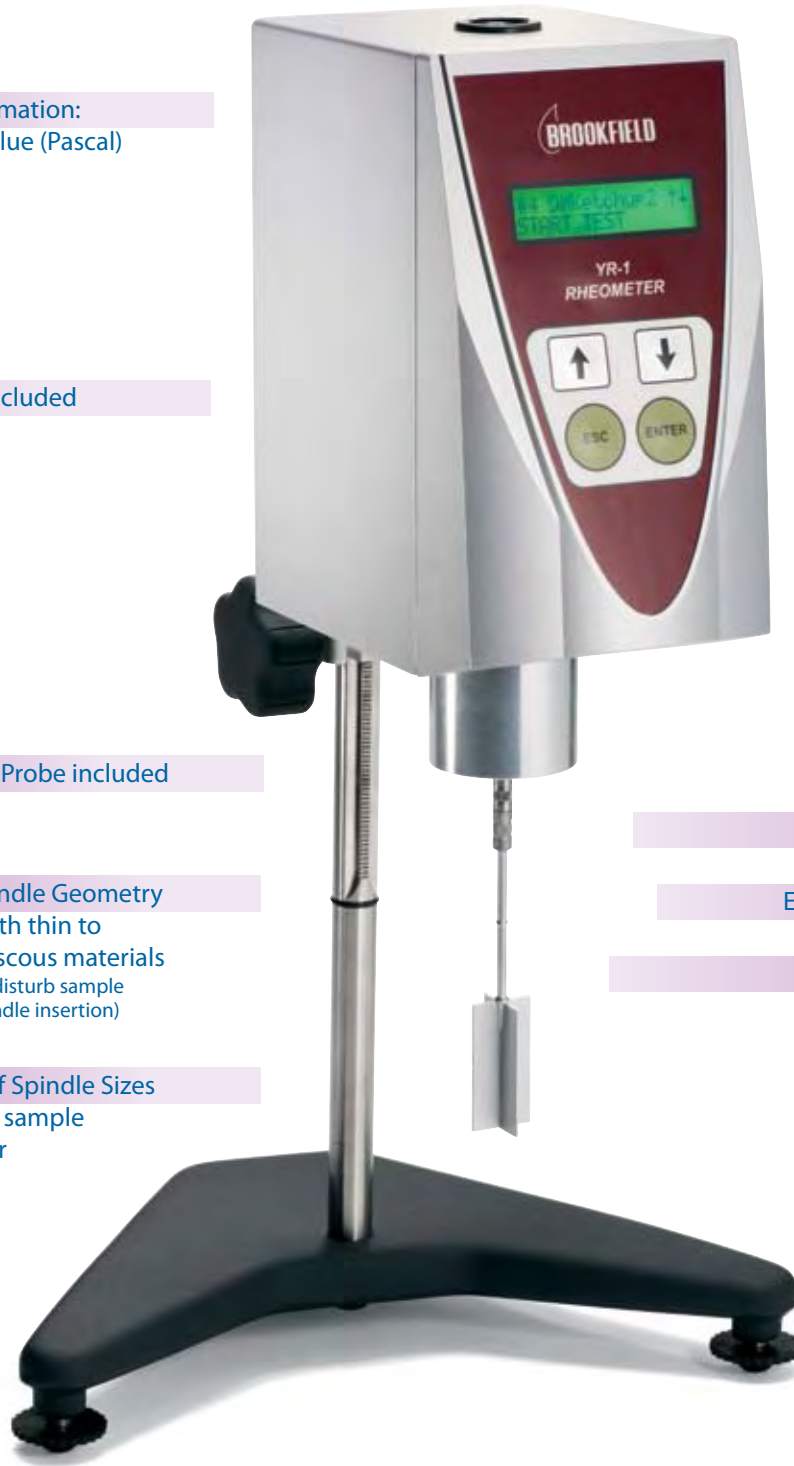
- Yield Stress Value (Pascal)
- % Torque

EZ-Yield Software included
for use with a PC

Temperature Probe included
(not shown)

Vane Spindle Geometry
works with thin to
highly viscous materials
(Does not disturb sample
during spindle insertion)

Choice of Spindle Sizes
to fit any sample
container



Ideal for QC

User-friendly Keypad
and display for
stand-alone
operation

Simple to use

Excellent repeatability

Affordable

BROOKFIELD SPECIALTY INSTRUMENTS

What's Included?

Instrument

V-72 & V-73 Vane Spindles (p37 & 42) ▼

EZ-Yield Software ►

RTD Temperature Probe

Lab Stand (Model S) (p44)

Carrying Case

Optional Accessories

V-71, V-74 & V-75 Vane Spindles (p37 & 42)

Viscosity Standards (p46)

Temperature Bath (p27)

Protective Keypad Covers (p45)

Quick Action Lab Stand (p44)

Applications

1/4 RV SERIES — VERY LOW YIELD

Juices Beverages

RV SERIES — LOW YIELD

Food Products Shampoo

Gels Yogurt

Hair Gels

HB SERIES — MEDIUM YIELD

Chocolate Lotions

Food Products Ketchup

Hand Cream Personal Care Products

Jelly Toothpaste

5xHB SERIES — HIGH YIELD

Adhesive Caulk Pastes

Cheese Spread Peanut Butter

Fruit Preserves Shortening



YR-1 Vane Spindles

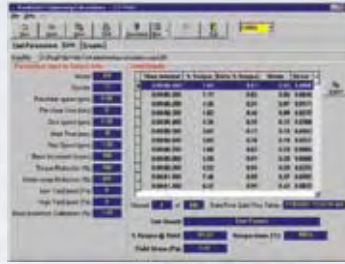
V-72 and V-73 vane spindles with case are supplied with YR-1.

V-71 (large), V-74 (small) and V-75 (small) vane spindles are optional.

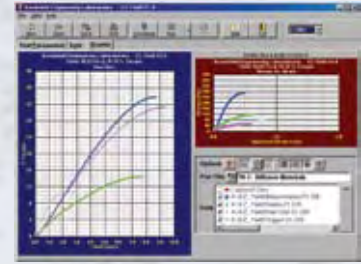
EZ-Yield Software Included

Easily program and capture data

EZ-Yield software is included with all YR-1 Yield Stress Rheometers and allows for simple data collection on a PC. Collecting data affords you a record of all your valuable testing results.



EZ-Yield Data Collection



EZ-Yield Test Plots
for Multiple Samples

EZ-Yield software features a simple parameter menu for set up of 10 different test programs. Test parameters include: test number and name, spindle #, immersion mark, pre-shear (rpm), wait time before test startup, run speed (rpm), and low & high yield control limits (Pa) for QC use.

Streaming data can be viewed and test data — torque vs. time, stress vs. strain — is displayed in both tabular and graphical formats on a PC when using EZ-Yield software.

Vane Spindle Ranges

SPINDLE	TORQUE RANGE	SHEAR STRESS RANGE (Pa)
V-71	1/4RV	.125-1.25
V-72	1/4RV	.5-5
V-73	1/4RV	2.5-25
V-74	1/4RV	25-250
V-75	1/4RV	10-100
V-71	RV	.5-5
V-72	RV	2-20
V-73	RV	10-100
V-74	RV	100-1K
V-75	RV	40-400
V-71	HA	1-10
V-72	HA	4-40
V-73	HA	20-200
V-74	HA	200-2K
V-75	HA	80-800
V-71	HB	4-40
V-72	HB	16-160
V-73	HB	80-800
V-74	HB	800-8K
V-75	HB	320-3.2K

Note:

- 1 Pa = 10 dyne/cm²
 - Viscosity Range is given at rotational speed of 10 RPM
 - 5xHB is the highest torque range available
 - Not for use with DV-E Viscometers
- M = 1 million K = 1 thousand Pa = Pascal
cP = Centipoise mPa·s = Millipascal-seconds