

YR-1™ Rheometer

a low cost QC tool to enhance material characterization

Displayed Information:

-Yield Stress
-% 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



What's Included?

Instrument

V-72 & V-73 Vane Spindles

EZ-Yield Software

Lab Stand (Model S)

Carrying Case

Optional Accessories

V-71, V-74 & V-75 Vane Spindles

RTD Temperature Probe

Viscosity Standards

Temperature Bath

Protective Keypad Covers

Quick Action Lab Stand

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. 1 Pa = 10 dyne/cm²

2. Viscosity Range is given at rotational speed of 10 RPM

3. 5xHB is the highest torque range available

4. Not for use with DV-E Viscometers

M = 1 million K = 1 thousand Pa = Pascal

cP = Centipoise mPa·s = Millipascal·seconds

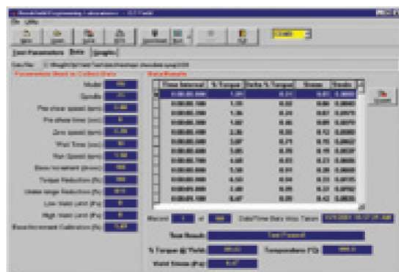


ISO 9001 Certified TEL 800-628-8139 or 508-946-6200 FAX 508-946-6262 www.brookfieldengineering.com

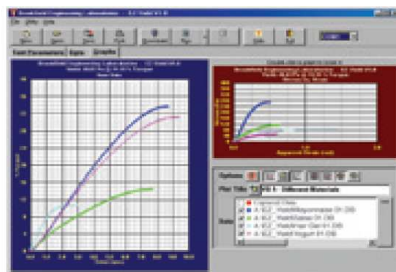
EZ-Yield Software Included

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.

Applications

1/4 RV SERIES – LOW YIELD

Juices
Creams
Beverages

RV SERIES – MEDIUM YIELD

Food Products
Gels
Hair Gels

HB SERIES – HIGH YIELD

Chocolate
Food Products
Hand Cream
Jelly

Lotions
Ketchup
Toothpaste

5XHB SERIES – VERY HIGH YIELD*

Adhesive Caulk
Cheese Spread
Fruit Preserves

Pastes
Peanut Butter
Shortening

*Very high yield stress measurements require use of 5XHBDV-III Ultra Rheometer.



YR-1 Vane Spindles

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

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

