

## RHEOMETER CALIBRATION CHECK KIT

This kit is used to check the calibration of any rotary viscosity measuring instrument.

A. The Kit contains the following items:

- 1 - Thermometer graduated in one tenth of 1°C
- 1 - Quart 50 cP Calibration Fluid
- 1 - Quart 100 cP Calibration Fluid
- 1 - Viscosity/Temperature Chart
- 1 - Rheometer Cup w/lid
- 1 - Box Disposable Wipes

**NOTE:** The batch number shown on viscosity/temperature chart should always match the number on the calibration fluid label. Each new bottle of calibration fluid will have a new chart.

### **CAUTION**

**WORK IN A WELL VENTILATED AREA. FLUID MAY CAUSE EYE IRRITATION.**

B. Make certain that the instrument to be checked is clean before immersing the sleeve and bob into the calibration fluid. The cup and lid should always contain the same fluid and should not be mixed with any other fluid.

C. Procedure for checking a Rotary Viscometer.

1. Remove instrument sleeve and thoroughly clean. Clean the bob on the shaft in the same manner.

**NOTE:** Sleeves and bobs should not be interchanged between instruments.

2. Remove the calibration fluid cup lid and see that the calibration fluid level is between the scribe line and ½ inch below it. Assemble sleeve onto rotor, then lower rheometer into fluid and adjust level so that the scribe mark on the sleeve is at the surface level of fluid.
3. Place thermometer down into cup until bulb touches the bottom and secure to side of rheometer to prevent thermometer from being broken.
4. Operate instrument at 300 RPM for 3 minutes to equilibrate bob and sleeve to fluid temperature. Read dial at 300 RPM and 600 RPM and record these readings. Record thermometer reading to nearest .1°C.

Part No. E10310001EA

5. The viscosity from the chart at the recorded temperature should be within  $\pm 2$  cP of the 300 RPM reading. Twice the cP viscosity from the chart should be within  $\pm 3$  of the 600 RPM reading.
6. Readings outside of the specified limits are indications that the instrument should be calibrated or repaired.
7. Upon completion of the calibration check, carefully wipe clean the sleeve inner and outer surfaces, the bob, the thermometer and work area. Put lid back onto calibration fluid cup.

D. Additional Equipment Available:

PART NO.	DESCRIPTION
28055	Cup, Stainless
28622	Rheometer Calibration Fixture
28647	200 cP Fluid, 16 oz
28692	50 cP Fluid, 16 oz.
28693	100 cP Fluid, 16 oz
28695	500 cP Fluid, 16 oz
31517	Viscometer Calibration Kit (DW-3)
H8010	Thermometer
J4035	Disposable Wipes

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