

QUALITY WORK INSTRUCTIONS (QWI) CALIBRATION PROCEDURE VISCOMETER, BROOKFIELD

Document #: QWI-36

Revision #: 1

Effective Date: 12/2/09

1.0 SUMMARY

This gage tests the viscosity of Fluid Sulfur samples at a wide range of temperatures.

2.0 PROCEDURE

Equipment Needed

Container with at least 500 ml volume.

Diameter: 3 inches minimum

Height: 4 inches minimum

Container may be larger but may not be smaller.

1. The Brookfield viscometer may not be "calibrated" in the field; however, you can and should check the calibration periodically using a viscosity standard.
2. Level the viscometer on a sturdy counter top.
3. Prepare a Brookfield viscosity standard in an appropriate container.
4. Place the container into water bath to adjust standard to required temperature (usually 20°C).
5. Immerse viscometer spindle into sample. Attach spindle to viscometer (avoid trapping air under the spindle disc).
6. Measure the viscosity and record the reading. NOTE: Spindle must rotate at least five (5) times before a viscosity is taken.
7. The reading should equal the cp value within the range of + / - 1%.
8. If the reading does fall within this range, procedure is complete.
9. If the reading does not fall within this range, follow calibration procedures in the manual.
10. Record your results on the Internal Calibration Chart (Form 29).