



## Florida Method of Test for VISCOSITY OF SLURRY

Designation: FM 8-RP13B-2

### 1. SCOPE

- 1.1 Viscosity relates to the flow properties of muds. The study of deformation and flow of matter is rheology.
- 1.2 The instrument used to measure viscosity of drilling fluids on a routine basis is the Marsh Funnel or Marsh Cone.
- 1.3 This test method has been adapted from Section 2 of the American Petroleum Institute (API) Recommended Practice FM 8-RP13B-1: Standard Procedure for Field Testing Water-Based Drilling Fluids (FM 8-RP13B-1). Use of a direct-reading viscometer has been eliminated.

### 2. EQUIPMENT

- 2.1 Marsh Funnel: A Marsh Funnel (see Fig. 1) is calibrated to out-flow 946 mL (one quart) of fresh water at a temperature of  $21 \pm 3^{\circ}\text{C}$  ( $70 \pm 5^{\circ}\text{F}$ ) in  $26 \pm 0.5$  seconds. A graduated cup is used as a receiver.

#### Specifications

##### Funnel Cone

Length ..... 305 mm (12.0 in.)

Diameter ..... 152 mm (6.0 in.)

Capacity to bottom of screen..... 1500 mL

##### Orifice

Length..... 50.8 mm (2.0 in.)

Inside Diameter..... 4.7 mm (3/16 in.)

Screen..... 12 mesh

Has 1.6 mm (1/16 in.) openings and is fixed at a level 19.0 mm (3/4 in.)