

AMC MARSH FUNNEL & MEASURING CUP

DRILLING FLUIDS EQUIPMENT

Description

Viscosity is a measurement relating to the flow properties of fluids. The funnel viscosity test can indicate changes in fluid properties, with measurements taken and recorded regularly. The AMC MARSH FUNNEL is a simple device routinely used to check fluid viscosity. The AMC MARSH FUNNEL is conical in shape; 152mm in diameter at the top and 305mm long with the capacity of 1500mL. A 12 mesh screen covers half of the top designed to remove foreign matter and drill cuttings from the fluid. The fluid runs through a fixed orifice at the bottom of the funnel and is collected in the mud cup.

The AMC MARSH FUNNEL is molded from a tough, durable plastic that resists breaking or cracking. A brass orifice assures consistency in all readings.

Size	6.5" x 6.25" x 14.5" (17 x 16 x 37cm)
Weight	12oz (340.2g)

The AMC MEASURING CUP is graduated in fluid ounces (2 – 32oz) and cubic centimeters (100 – 1,000cc) and is designed to be used with the AMC MARSH FUNNEL. The heavy duty plastic measuring cup features a double spout and has the two scales molded into the inside of the cup for convenience.

Size	5.75" x 5.5" x 7.25" (15 x 14 x 18cm)
Weight	8oz (227g)



Recommended Treatment

Procedure

1. Hold the funnel in an upright position with the index finger over the outlet.
2. Pour a freshly obtained sample of fluid through the screen until the fluid level reaches the line just below the bottom of the screen.
3. Remove finger from the outlet and start the stopwatch which directing the discharge into the measuring cup; measure the time taken for the fluid to fill 946mL or 1 US Quart (mark scribed in the cup). Alternatively, it can be measured in seconds per litre (1 L = 1000cc).
4. Report the time to the nearest second as the marsh funnel viscosity. Check hourly or as required while drilling to monitor trends.

Procedure

1. Check the calibration of the AMC MARSH FUNNEL with fresh water. Test with the above procedure to get a funnel viscosity of 26 ± 0.5 seconds per quart or 27 ± 0.5 seconds per litre.
2. Clean and dry the funnel and cup thoroughly after each use
3. Do not bend or flatten the brass orifice at the bottom of the funnel.



Check out our YouTube channel to see the full demonstration at youtube.com/amcdrillingfluid

Please Note: Several factors will dictate the most appropriate concentration rate. Please contact your nearest AMC representative for optimum results.

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