

MARSH FUNNEL VISCOMETER

Instructions for use

Marsh funnel viscometer is an instrument used for daily measurement of drilling fluid viscosity. Manufactured with American API standard, the viscosity of drilling fluid is determined by quantitative drilling fluid outflow time from the funnel. Simple structure and convenient use. Widely used in petroleum, geological exploration and other departments.

Models and Specifications

Model	Name	Configuration
MLN-1	Marsh funnel viscometer	Plastic cup
MLN-2	Marsh funnel viscometer	Stainless steel cup
MLN-3	Marsh funnel viscometer	Plastic cup, stopwatch
MLN-4	Marsh funnel viscometer	Stainless steel cup, stopwatch

Main technical parameters


Sieve Aperture	1.6mm (12 mesh)
Capacity below the funnel sieve	1500ml
Accuracy	When 1500ml of standard distilled water is injected into the funnel, the time for 946ml of standard distilled water to flow out is $26 \pm 0.5s$


Operation


1. Block the outlet at the lower part of the funnel with finger, and pour the newly taken drilling fluid sample into a clean and upright funnel through the sieve until the level of the drilling fluid sample reaches the bottom of the sieve.
2. Remove the finger and simultaneously start the stopwatch to measure the time it takes for the drilling fluid to flow to the 946ml (one quart) mark in the measuring cup.



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3. Measure the temperature of the drilling fluid, in °C (or °F).
4. Record the viscosity of the Marsh funnel in seconds, and record the temperature value of the drilling fluid in °C (or °F).


Calibration


1. Control the measurement environment temperature to $20\pm 2^{\circ}\text{C}$, and set the stopwatch in the standby state.
2. Hold the funnel in an upright position and block the outlet of the lower guide tube with finger.
3. Pour 1500ml of distilled water (20°C) into the funnel and measure it with a measuring cup.
4. Then release the finger and start timing at the same time, stop timing when 946ml flows into the measuring cup, and the time should be within $26\pm 0.5\text{s}$.


Note: All instruments must be rinsed with clean water before measurement.



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