Marsh Funnel Viscosity meter

SL-MLN

Function

Marsh Funnel Viscosity meter is an instrument to mensurate the relative viscosity of mud (compare with water). It could indicate the effective viscosity (apparent viscosity) and enjoins the advantages of simple mechanism and convenient operation. The larger the funnel viscosity (the seconds) is, the larger is the apparent viscosity of mud.

Ordinarily the mud flow in lamellar or structural phase, it reflects the varieties of the viscosity and consistency of mud logically.

Structure

It made up with conic Marsh funnel, filter screen with 6 holes per cm and two measuring cups with the capacity of 946ml and 1500ml.

Technical parameters

(1) Marsh Funnel:

The diameter of the upper hole of the cone is 152mm, the diameter of lower hole and the diversion pipe is 4.76mm, the length of the cone is 305mm, and the length of the total funnel is 356mm.

(2) Filter screen: 6 holes per cm (mesh of 16).

(3) Standard measuring cup is 946ml.

(4) This product follows the standard of Q/02QFY002-2008.

Operating rules

(1) Hold the funnel vertically; put the filter screen on the upper hole of the funnel; blind the export of diversion pipe with your index finger.

(2) Pour sample of candidate mud into the funnel through filter screen till the mud level attain the underside of the filter screen.

(3) Prepare the stopwatch. Move your index finger and meanwhile put down the button of stopwatch. Stop the stopwatch the soon as measuring cup with the capacity of 946ml is full. Note the time of this process, and the funnel viscosity of mud is expressed in time of seconds.
Rectification

Before leaving factory and after a period of usage, Marsh Funnel must be rechecked. The checking method is following. Pour 1500ml pure water into the funnel under the temperature of 21±3°C (equal to 70°F). If the time is 26±0.5 seconds with 946ml (1quart) outflow or the time is 28±0.5 seconds with 1000ml outflow, the funnel is eligible.

Maintainance

(1) The instrument must be clean after every usage.

(2) The deformation of the head of the diversion pipe of funnel is not allowed.

Packing list

1. Funnel 1
2. Measuring cup with 946ml 1
3. Stainless steel cup with 2000ml 1
4. Operation instruction 1
5. Qualification 1