

## SAND CONTENT TEST KIT

### Instructions for use

The drilling fluid sand content measuring instrument is a simple, reliable, effective and accurate instrument for measuring the sand content of drilling fluid. The sand content of the drilling fluid refers to the percentage of the volume of the drilling fluid that cannot pass through the 200mesh screen, that is, the sand with a diameter greater than 0.074mm.

### Main technical parameters

Item	Technical specification
Screen aperture	0.074mm (200 mesh)
Glass cylinder capacity	100ml
Sand content	0~20%

### Operation

1. Put a certain amount of drilling fluid into the glass measuring cylinder, then add an appropriate amount of water, cover the opening of the cylinder with your fingers, and shake vigorously to mix the drilling fluid and water well.


**Note:** the amount of drilling fluid should not exceed 30ml, so as not to be difficult to dilute the drilling fluid; the total volume of drilling fluid and water should not exceed 100ml, so as not to affect the shaking.


2. Pour the mixture in the glass measuring cylinder into the upper filter cylinder. Add water to the glass measuring cylinder, shake and pour into the upper filter cylinder and rinse until the liquid passing through the screen is clear and transparent. All that was left on the screen was sand that could not pass through the 0.074mm aperture.


**Note:** When rinsing the drilling fluid in the filter cylinder with clean water, the water should be slowly rinsed from all sides. The upper and lower filter cylinders are integrated, the one that can be put into the funnel is the upper filter cylinder, and the other is the lower filter cylinder.

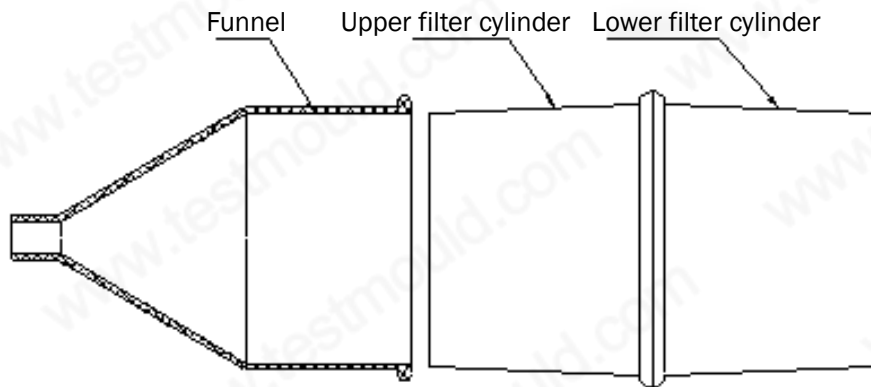


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- Put the funnel on the upper filter cylinder, slowly turn it over, insert it into the glass measuring cylinder, and then flush all the sand attached to the screen into the glass measuring cylinder with clean water.

**Note:** It is strictly forbidden to use excessive external force on the screen, so as to avoid damage and deformation, affecting the accuracy and use.

- After all the sand has settled, read the number and substitute it into the following formula:

$$\text{Sand content} = \frac{\text{Sand volume (ml)}}{\text{Drilling fluid volume (ml)}} \times 100\%$$