

Sand Content Kit

Product Information



Sand Content

Sieve and measuring cylinder to determine the sand content of drilling mud in volume percent

Description

The sand content of the drilling fluid defines sand-sized particles larger than 74 μm in size. The volume of sand, including that of void spaces between grains, is usually measured and expressed as volume percent. Sieve analysis is the preferred method for sand content determination because of the reliability of the test and simplicity of equipment.

Excessive sand may result in the deposition of a thick filter cake on the wall of the hole, or may settle in the hole about the tool when circulation is stopped, thus, interfering with successful operation of drilling tools or setting of casings. High sand content also may cause excessive abrasion of pump parts and pipe connections.

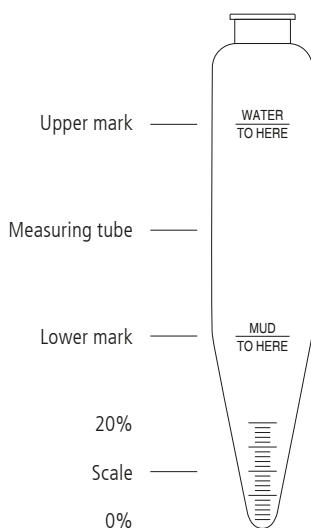
The Sand Content Kit consists of special developed sieve with mesh-size 0,08 mm (200-mesh), a proper plastic funnel and a special modeled measuring tube. A mark at the measuring tube indicates the amount of the filled in drilling fluid. The percentage of sand may read off directly from the measuring tube graduated from 0 to 20%.

Technical Specifications

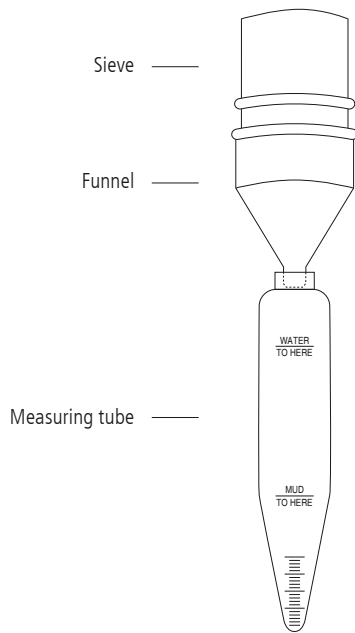
Transport box

Length	:	270 mm		10.63"
Width	:	185 mm		7.28"
Height	:	100 mm		3.94"
Weight	:	0.6 kg		1.32 lbs

Operation



1. Fill the measuring tube to the indicated mark with mud. Use the wash bottle to add water to the upper mark. Close the mouth of the tube and shake vigorously.
2. Pour the mixture onto the clean sieve. Discard the liquid passing through the screen.
3. Add more fluid from the wash bottle to the tube, shake, and again pour onto the sieve. Repeat until all the drilling fluid has been washed out of the tube.
4. Flush the screen with fluid from the wash bottle to free the sand remaining on the sieve of any remaining mud.



5. Fit the funnel upside down over the top of the sieve. Slowly invert the assembly and insert the tip of the funnel into the mouth of the glass measuring tube.
6. Wash the sand into the tube by spraying a fine spray of fluid from the water bottle through the sieve (tapping on the side of the sieve with a spatula handle may facilitate the process). Allow the sand to settle.
7. Using the scale on the graduated tube, read the volume percent of sand. Report this along with the source of the mud sample (above shaker, suction, pit, etc.). Coarse solids other than sand (lost circulation material, coarse barite, coarse lignite, etc.) may be retained on the screen. The presence of such solids should also be noted.

Maintenance

The Sand Content Kit is maintenance free. Thoroughly wash any sand or drilling fluid from the screen, funnel, and tube after each use. Dry all equipment. Keep the parts in the transport box.

Order Information

Sand Content Kit, complete	8030.0.00400-01
Wash bottle, 500 ml	8030.0.00400-02
Sieve, 200 mesh	8030.0.00401-01
Funnel	8030.0.00402-01
Measuring tube, glass, 10 ml	8030.0.00403-00
Transport box, plastic	8030.0.00400-03

