



# MATRIX SAND CONTENT KIT

SIEVE ANALYSIS FOR DETERMINING SAND CONTENT  
OF DRILLING FLUID • DELUXE 5-PIECE SET

MATRIX® CERTIFIED  
TESTING EQUIPMENT

PRODUCT DATA SHEET

Sand content is defined as anything retained on a 200-mesh screen and the percentage volume of particles larger than 74 microns.

### The MATRIX Sand Content Kit consists of 5 pieces:

A 200 mesh sieve 2-1/2 inches in diameter, fastened inside a collar upon which a small funnel is fitted on either end. This is used with a 10 ml glass measuring tube, graduated to read from 0 to 20% percentage of sand by volume. The collar and funnel are made of polyethylene and the screen is made of brass. A 500 ml wash bottle and carrying case are also included.



### PROCEDURE

1. Use a freshly agitated sample of slurry. For polymer slurries, the sample must be shaken or agitated to assure that all sand captured in the sample is in suspension. Fill the measuring tube up to the line labeled "Mud to Here" then use the wash bottle to add clear water to the line labeled "Water to Here". Close the mouth of the tube with the thumb and shake vigorously.
2. Pour the mixture in the tube through the screen. Continue adding fluid or bleach to the tube, shaking it, and pouring the contents through the screen until all of the drilling slurry has been washed out of the tube.  
**Note: Do not stir or manually force the mixture through the screen. Tapping the side of the screen holder as the diluted drilling fluid is added will help the mixture pass through the screen. Use household bleach in place of water when running a sand content test with polymer slurry.**
3. Flush the screen with fluid from the wash bottle to wash away the remaining drilling fluid and particles until all that remains on the screen is sand.
4. Fit the large end of the funnel over the top of the screen holder and slowly invert the screen and funnel assembly, fitting the tip of the funnel into the mouth of the glass measuring tube.
5. Using a fine spray of fluid from the wash bottle, wash the sand from the screen back through the funnel into the glass measuring tube, and allow the sand to settle.
6. Note the amount of sand that has settled and using the scale on the outside of the tube determine the percentage of the total slurry volume that is sand. Record this value as percentage sand by volume.

**AVAILABILITY:** The MATRIX Sand Content Kit for measuring percentage sand by volume of slurry can be purchased through any MATRIX Construction Products Representative. [Orders@matrixcp.com](mailto:Orders@matrixcp.com)



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