



10ml Retort Kit

Knowledge of water, oil and solids content is fundamental to proper control of mud properties such as: oil/water ratio, rheology, density, filtration and salinity of aqueous phase. Knowledge of solids in oil mud is essential to evaluation of solids control equipment.

The Fann Model 871 Oil & Water Retort Kit is used to determine the quantity of liquids and solids in a drilling fluid. In a retort test, a measured sample of fluid is placed in a cup and heated until the liquid components have been vaporized. The vapors are passed through a condenser and collected in a graduated cylinder or centrifuge tube that has been calibrated to record the volume of the condensed liquids at 20°C. The distillate is read directly as volume percent of the solids sample's original volume. Suspended and dissolved solids are determined by subtracting these from 100 percent of the initial sample. For fresh-water fluids, the relative amount of barite and clay can be estimated. Corrections must be made for salt in the calculation for solids content by volume.

The Oil & Water Retort provides a simple, direct field method for determining the percent by volume of oil and water in samples in drilling mud or in core samples of the formation. The Retort has been found to be especially useful in determining the oil content of emulsion muds. Fann Retorts are available in 12, 115, and 230 volt models.