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fann

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# Calcimeters Datasheet 

Drilling Fluids Testing / Calcimeters Equipment

## Calcimeters

The compounds responsible for scale build-up in drilling fluids must be determined before an effective chemical treating program can be implemented to control the scale.

FANN CALCIMETERS are used to determine the amount of Calcium Carbonate and Magnesium Carbonate (Dolomite) in a sample of alkaline earth carbonates such as oil well cores or drilled cuttings. Calcite build-up in drilling fluids and in water treatment processes causes scaling problems. Data from the Fann Calcimeter can help determine the proper chemical treatment.

These instruments comply with the ASTM D 4373-84 STANDARD TEST METHOD FOR CALCIUM CARBONATE CONTENT IN SOILS. This test method is under the jurisdiction of ASTM Committee D-18 on Soil and Rock and is the direct responsibility of Subcommittee D-18.13 on Marine Geotechnics.


Model 43210 Recording Calcimeter


Model 432 Gauge Calcimeter

In Fann Calcimeters the calcium carbonate and magnesium carbonate are reacted with $10 \%$ Hydrochloric Acid to form $\mathrm{CO}_{2}$. This is done in a sealed reaction cell and the pressure build up due to the $\mathrm{CO}_{2}$ is measured using either a pressure gauge or a pressure recorder. The use of a Calibration Curve, determined through the use of pure Calcium Carbonate reagent, allows the pressure developed to be related to the weight of calcium carbonate in the calibration sample. Several weights of sample are suggested to provide an accurate curve. These tests can be conducted using either the pressure gauge or recorder with the reaction cell. The sample can be weighed on a portable balance with 10 mg precision.

## Calibration Curve



## fann <br> The Original Testing Equipment Company ${ }^{\text {TM }}$

## Ordering Information

## Model 43210 Recording Calcimeter - Part Number 209698

Includes:
Reaction Chamber with Basket
0-15 psig Recorder - Digital Balance
Reagents - Hardware - Instructions
Stainless Steel Carrying Case

## Model 432 Gauge Calcimeter - Part Number 209696

Includes:
Reaction Chamber with Basket
30 psig Gauge - Instructions

Fann Instrument Company offers a complete line of equipment, materials and supplies for use in testing drilling fluids in accordance with The American Petroleum Institute:

API Recommended Practice 13I, ANSI/API 13I/ISO 10416

