

Aqueous Phase Activity Kit

Description

Fann's Aqueous Phase Activity Kit is designed for use in the determination of aqueous phase activity of emulsified water using an electro hygrometer by the method described in American Petroleum Institute's API Recommended Practice RP 13 B-2. This kit includes special flasks and relative humidity standards (premixed saturated salt solutions).

The Electro Hygrometer is a portable humidity sensor and indicator. Electro Hygrometers are used to measure the relative humidity (RH) in a closed air space above an oil-based drilling fluid.



Application

Hole conditions in water sensitive shales can be correlated with changes in the activity of emulsified water in oil-based drilling fluids. Using a hygrometer is the preferred method for determining the activity in oil-based drilling fluids.

Features and Benefits

- Lightweight carrying case
- Detachable RH probe housed in rugged thermoplastic cylinder
- Fast, precise measurements
- Large LCD display for improved readability
- Smooth membrane keyboard with 4 keys for simple and quick operation
- Water-resistant
- Built-in temperature sensor

Electro Hygrometer Specifications	
Relative Humidity Range	5.0 to 95.0% RH
Temperature Range	32°F to 140°F 0.0°C to 60°C
Resolution	0.1% RH 1°F / 0.1°C)
Accuracy	± 2% RH ± 1°F / ± 0.4°C
Relative Humidity Probe	Thin film, polymer sensor
Battery Type/Life	4 x 1.5 V AA 500 hours of continuous use
Environment	32°F to 122°F 0°C to 50°C RH 100%

Ordering Information

Part No. 204197 – Aqueous Phase Activity Kit

Included Parts:

- 205073 – Seal Ring, 1.5 x 0.75 x 0.040 in (2)
- 205625 – Stopcock Lubricant Grease, 75 g
- 205914 – Erlenmeyer Flask, Glass, 250 g (5)
- 205290 – Rubber Stopper #6 (5)
- 206671 – Digital Hygrometer
- 206663 – Zinc Chloride, 0.100 a_w , 100 ml
- 206668 – Calcium Nitrate, 0.505 a_w , 100 ml
- 206669 – Ammonium Sulfate, 0.800 a_w , 100 ml
- 206670 – Calcium Chloride, 0.295 a_w , 100 ml
- 209941 – Calcium Chloride Powder, 2 oz
- 372313 – Operating Instructions

Fann Instrument Company offers a complete line of equipment, materials, and supplies for analyzing various drilling fluids and oil well cements in accordance with API Specifications and API Recommended Practices.