



Dependable Products From People You Trust

# OFITE Model 900 Viscometer

...where performance meets value

## Introduction:

A high tech testing instrument doesn't have to be difficult to use or maintain. Take a look at the Model 900 and one word comes to mind - simple: simple to operate, simple to calibrate, simple to maintain.

As a stand-alone field unit, the press of a single button prompts the viscometer to perform standard API test sweeps for your choice of mud or cement rheologies. Custom programs can even be downloaded to the unit and started with the touch of a button. Standard speeds (i.e. 600 rpm, 300 rpm, etc.) are also provided as single button operations on the keypad. Need a specific shear rate? Just enter the parameters on the numbered keypad and press 'Enter', and the instrument automatically adjusts to the correct rpm.

Have a need for advanced research and demanding test parameters? Just hook up a computer to the Model 900 and turn it into a fully automated system that includes complete data acquisition using OFITE's exclusive ORCADA™ software.



## Competitive Advantage:

OFITE's Model 900 Viscometer is extremely versatile. Its simplicity makes it ideally suited for the field, yet with the addition of a computer can perform as well as any lab machine available today.

## Features/Specifications:

**Instrument Geometry** - True Couette Coaxial Cylinder

**Motor Speeds (RPM)** - 12 Fixed Speeds (600, 300, 200, 100, 60, 30, 20, 10, 6, 3, 2, and 1); Variable Speed range .006 - 1000

**Bobs** - B1 (Standard), B2, B3, B4, B5 (Optional)

**Speed Accuracy (RPM)** - .001

**Shear Rate Range (sec<sup>-1</sup>)** - .01 - 1700

**Shear Stress Range (dynes/cm<sup>2</sup>)** - 0-1500 (R1B1 & F1)

**Heat Cup** - Stainless Steel, 150 Watt, Up to 190°F (88°C). New design allows for faster heat up and improved accuracy.

**Temperature Measurement** - Type "J" Thermocouple. Measures actual fluid, not thermocup.

**Power Requirements** -

- Viscometer: 97 - 250 Volts AC, 50 / 60 Hz
- Heat Cup: 115 Volts or 230 Volts, 50 / 60 Hz

**Automatic Tests** - API Cementing and Mud Rheologies. 8 user designed programs available.

**Torsion Springs** - F1 (Standard) F0.2, F0.5, F2 (Optional)

**pH** - Measure and record pH of fluid (Optional)

**Multi-Unit** - Run multiple units on one computer

**Calibration** - Push button calibration. Calibration history and graphs available for improved analysis (with ORCADA software).

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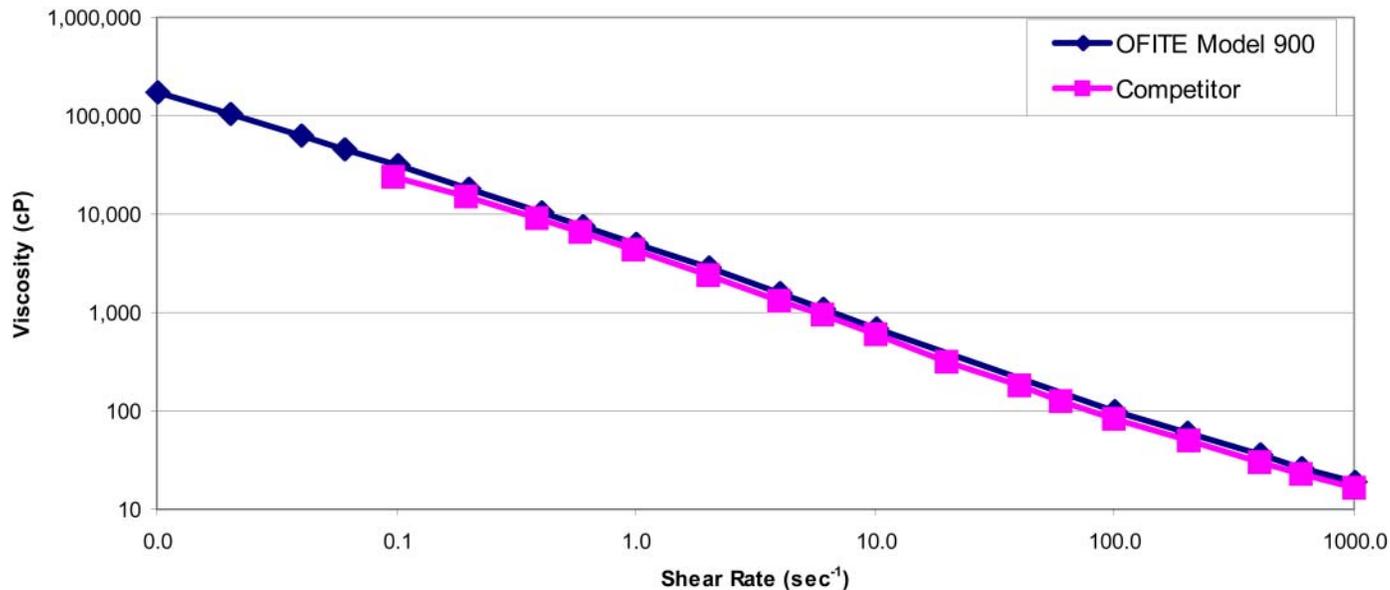
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## Competitive Data:

Recently, a customer did a series of measurements on a sample of xanthan gum using the OFITE Model 900 Viscometer (using R1, B1, and F 0.2 spring) versus competitive model from a well-known manufacturer. The results were amazing! The OFITE Model 900 measurements were right on target with the competitive model AND **the Model 900 was able to capture lower shear readings** (.01 s<sup>-1</sup>) than the “low-shear” competition. At **1/10th the cost of the competitive model**, the Model 900 is a great investment!

350mL DI H<sub>2</sub>O with 2.0g FLO VIS NT and 7.0g KCl



### Model 900 Raw Data

Shear Rate	Viscosity
0.01	171,251
0.02	102,650
0.04	46,405
0.06	31,700
0.10	18,530
0.20	10,414
0.40	7,601
0.60	5,078
1.0	2,826
2.0	1,582
4.0	1,582
6.0	1,100
10.0	704.9
100.0	101.5
200.0	58.9
400.0	35.5
600.0	26.8
1000.0	18.7

## For more information:

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