

Rheometer Model 280



**Model 280 Rheometer
Part No. 206984**

The Model 280 is a hand-powered, two-speed rotational Rheometer designed specifically for field testing the rheological properties of drilling fluids. A small crank drives the rotor at a pre-selected constant speed through a precision gear train governor. Rotor speeds of 300 or 600 are obtained by setting the position of the speed control lever. Measurements are read directly from the deflection scale. The readings obtained are used to determine the plastic viscosity and yield point of the test fluid.

Gel strength measurements are read directly from the deflection scale. When making gel-strength measurements, force is applied manually by turning the gel knob and observing the maximum reading on the deflection scale before the gel breaks.

The Model 280 Rheometer requires very little field maintenance, and is the lightest field instrument available for determining plastic viscosity and yield point.

Plastic Viscosity is a measure of the internal resistance to flow attributable to the amount, type, and size of solids present in a given fluid. The plastic viscosity in centipoise is equal to the 600 RPM reading minus the 300 RPM reading.

Yield Point is the resistance to initial flow, or represents the stress required to start fluid movement. This measurement is reported in lb/100sq. ft. and is equal to the 300 RPM reading minus the Plastic Viscosity.

Apparent Viscosity is the viscosity a fluid appears to have on a given instrument at a stated rate of shear. Apparent Viscosity is equal to the 600 RPM reading divided by 2. This measurement is also reported in centipoise.

The API recommended Torsion Spring, Rotor, and Bob are supplied with the Model 280 Rheometer. A stainless steel sample cup is also included.

An optional High Impact plastic carrying case is available. Please order separately.

Rheometer Parts	Part Number
Stainless Steel Sample Cup	207030
Bob	207033
Rotor	207031
Torsion Spring	207040
Carrying Case high Impact Plastic	207044