



Model 5550

HPHT VISCOMETER

A Critical Tool for Oil Field Fluids

The Model 5550 HPHT Viscometer is a concentric cylinder viscometer that uses the rotor and bob geometry accepted by the energy industry. Its design meets the requirements set forth in ISO and API standards for viscosity measurement of completion fluids at high pressure and high temperature.

Engineering Excellence for Superior Performance

The small, bench-top Model 5550 is engineered with a number of features that make it both highly accurate and very reliable.

The instrument's temperature control system uses a sliding carbon-block heater which provides precise control while eliminating the oils and circulators associated with liquid high-temperature baths. The rotor drive employs an accurate, high precision speed control system for precise shear rate control.

Torque measurements are performed by a highly accurate digital sensor which is external to the sample cell to avoid corrosion or abrasion. The proprietary design of the bob's shaft serves as a very effective climb arrestor which keeps the sample in the measurement region of the cell and away from critical rod seals and bearings. This combination of benefits provides better test results while prolonging the life of key components. Should the bob's shaft bearings need replacing, a user will be pleased to discover that he can replace them in less than ten minutes compliments of the best-engineered design on the market.



FEATURES

- ✓ External Digital Torque Measurement
- ✓ Dry, Carbon Heating Block
- ✓ Simplified Head Design
- ✓ Highly Effective Gel Climb Arrestor
- ✓ Rheo 5000 Data Acquisition And Control Software
- ✓ Automatic Calibration
- ✓ HASTELLOY® C-276 Wetted Components

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Operational Simplicity

The Model 5550 Viscometer is simple to operate. All of the basic operational controls are conveniently located on the front panel. Test schedule programming, control and data acquisition are provided by the Chandler Rheo 5000 software, which operates on an independent computer. The control system provides automatic temperature and pressure profile control, motor speed profiles, and automatic calibration capabilities. The software also features real time displays of test parameters and results. All data is easily exported to a spreadsheet file for archiving and data sharing.

Specifications

Temperature, Maximum

500°F / 260°C

Pressure, Maximum

2,000 psi / 13.9 MPa

Shear Rate Range**

0.17 to 1700 sec⁻¹ (0.1 to 1000 rpm) with standard R1 rotor & B5 bob combination

Shear Rate Accuracy

±0.01 rpm

Shear Stress, Maximum

4900 dyne/cm² (F440 spring)**

Cool Down

Less than 15 minutes typical

Heating Power

1200 watts

Heater Style

Oil-Free sliding carbon block

Data Acquisition

Rheo 5000 Application & Control Software

Wetted Parts

HASTELLOY® C-276 Rotor, Bob and Bob Shaft - Standard

Tech Standards

ISO 13503-1, API RP 39

Utilities

Power Requirements

110VAC 11A, 50/60 Hz or 220VAC 6A, 50/60 Hz ± 10%

Physical Dimensions

Dimensions (w x d x h)

11 in. x 16 in. x 25 in. / 30 x 41 x 56 cm

Weight:

80 lb / 36 kg

Manufacturer's specifications subject to change without notice

**Several bob and rotor combinations are available.

Scan the below QR Code with your phone to view product information on our Website.



CHANDLER ENGINEERING

2001 North Indianwood Avenue, Broken Arrow, OK 74012

Tel: +1 918-250-7200 • Fax: +1 918-459-0165

e-mail: chandler.sales@ametech.com • www.chandlereng.com

Houston Sales and Services

4903 W. Sam Houston Parkway, N., Suite A-400, Houston, TX 77041

Tel: +1 713-466-4900 • Fax: +1 713-849-1924