

Patented design prevents sample contamination

The Grace Instrument M7500 Ultra HPHT Rheometer employs a unique, patented design which entirely prevents contact between sample fluid within the main test chamber and pressurization fluid, which is injected into interlocking isolated chambers above the test chamber. No other rheometer on the market today can make this claim.

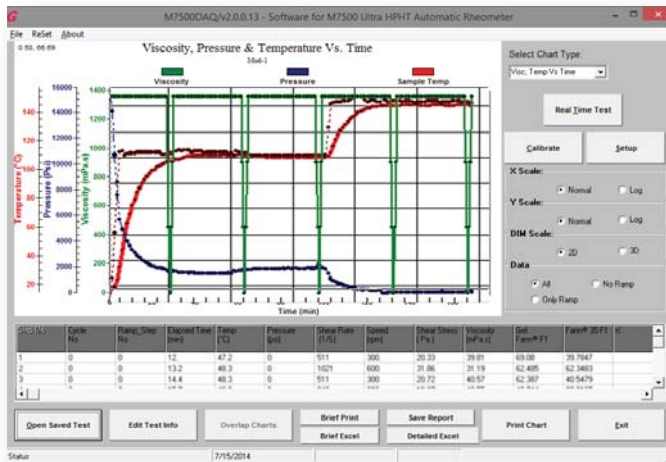
Optional components add multiple test functions while saving time, money, and laboratory space

Hardware modules are available which add specific functionality to the M7500, including cement testing, pressure-volume testing, linear swell testing, and more. These modules take the place of stand-alone equipment and can be integrated into the standard M7500 training program, saving training costs and laboratory space. This feature alone enables the M7500 Ultra HPHT Rheometer to provide an excellent ROI.



The Grace Instrument M7500 Ultra HPHT Rheometer is a coaxial cylinder, rotational, high pressure and high temperature rheometer. It measures various rheological properties of fluids (including API HPHT tests) under a range of pressures and temperatures, up to 30,000 psi and 600 °F.

M7500DAQ PC software:



Measurement range (B1, B5 bob):

- Sample Size: 132 mL
- Speed: 0.01 to 600 rpm continuous
- Shear Rate: 0.0082 to 1020 S⁻¹
- Temperature: Ambient (20 °F w/chiller) to 600 °F
- Pressure: Atm to 30,000 psi
- Viscosity: 0.5 to 5,000,000 Centipoise
- Torque: 7 μN.m to 10 mN.m
- Shear Stress: 2 to 10,000 dyne/cm²
- Resolution: 0.3% of full scale range or better
- Repeatability: ±1% of torque span or better

Mechanical specifications:

- Dimensions / Footprint: 22" tall x 12" wide x 24" deep (tower)
15.5" tall x 14" wide x 25" deep (cab)
- Weight: 250 lbs

M7500 geometries conform to API test specifications.