

MTE - PORTABLE CONSISTOMETER

MODEL No. CMNT-004

DESCRIPTION

The MTE Portable Consistometer was specifically designed to perform thickening time tests according to API Specification 10. Its small size and light weight make this instrument ideal for use in the field as well as in the laboratory. The MTE Portable Consistometer may be used to test cements at temperatures up to 400° F and pressures up to 15,000 psi. This highly versatile and compact unit includes the following standard features:

- Microprocessor temperature controller allows the testing of cements according to the temperature schedules as outlined in API Specification 10.
- A high pressure, air controlled, hydraulic pump is utilized to develop pressures up to 15,000 psi.
- A cooling coil enables the operator to quickly cool the instrument so that little time is required to cool the unit.
- All paddles and slurry cup containers are manufactured in strict accordance of API Specification 10 and data can be correlated to data obtained from other consistometer manufacturers.
- The slurry cup is rotated at 150 rpm via a magnetic drive unit and a variable speed controller (optional) is available to perform rheological studies of cement slurries.
- A multi-channel strip chart recorder is incorporated to monitor the consistency and temperature of the cement slurry.
- Alarms are utilized to alert the operator of the termination of a test or to indicate when a cement has reached a predetermined consistency.
- A pressure relief device prevents the instrument from exceeding the Maximum Allowable Working Pressure (MAWP) of the consistometer.
- Unit may be purchased in either a 115 volt, 60 Hz model or in a 220 volt, 50 Hz electrical configuration. The MTE Portable Consistometer is also available with fluid loss accessory kit which enables the operator to inject the conditioned cement into a standard HPHT fluid loss cell to examine the filtration properties of cements. In addition, a rheology kit may be



purchased which allows the user to determine the rheological properties of cements and other fluids under simulated downhole conditions.

CERTIFICATION

The MTE Portable Consistometer is tested at the factory to ensure that each instrument meets the stringent quality control set forth by Messina. Each unit is guaranteed to be free of manufacturing defects for a period of one year. Shipping dimensions are 38" X 22" X 28" and the unit weighs approximately 300 lbs.

