



MTE - ATMOSPHERIC CONSISTOMETER

MODEL No. CMNT-001 AND CMNT-002

METHOD

The MTE Atmospheric Consistometer is used for testing oil well cement slurries in accordance with the procedures listed by the American Petroleum Institute (API), Specification 10. Specifically, the apparatus is used in conjunction with the testing procedures for:

- Determination of Free Water Content of the cement slurry
- API Fluid-Loss Test
- Determination of Rheological properties of cement slurries

Messina offers a standard (non-recording) Model CMNT-001 and a more sophisticated recording Model CMNT-002. Both units are available in 120V, 240V, and 50Hz, or 60Hz configurations.

DESCRIPTION

The MTE Atmospheric Consistometer consists of a cabinet which houses the instrument, drive mechanism, water/oil bath and cooling coils, and two (2) sample containers for testing cement slurries. The Model CMNT-001 contains an instrument panel with components that allows control of the bath temperature from ambient to 100° C (212° F). Slurry consistency is directly indicated on the potentiometer scale. This unit must be monitored by the operator. The Model CMNT-002 incorporates variable resistors which are attached to the potentiometer heads and automatically measure the consistency of the cement slurry. The consistency is recorded on a strip chart recorder which is mounted in the control panel. The unit is also equipped with a variable alarm which signals the operator when a cement slurry has reached a pre-set consistency.

Both units are equipped with a long-life driver gear/belt assembly which rotates the cement slurry containers at 150RPM. The slurry containers are rotated by engaging the lock pins located on the potentiometers. Mineral oil is recommended as the heater bath fluid due to its low rate of evaporation and high flash point. Utilities required for the Model CMNT-001 and Model CMNT-002 are 115V, 50/60 Hz, single phase, 20 amp capacity or 220-240V, 50/60Hz, single phase, 10 amp capacity.

A complete instruction manual, schematics, drawings and parts list are furnished with each instrument. The operator should read these instructions before attempting to operate the unit.



The units are calibrated according to the instructions outlined in API Specification 10.

The MTE Atmospheric Consistometer is certified by Messina Incorporated to be free of manufacturing defects prior to shipment. Each unit carries a Warranty for a period of one year which can be extended at the buyer's option. Shipping dimensions are 24"W X 32"D X 24" to 36"H, net weight 50 to 75 lb.

