Taha Kimia Tajhiz Co.

Chandler Engineering Co.

Model 4262 Twin Cell Ultrasonic Cement Analyzer Datasheet

Cement Testing / Compressive Strength Equipment

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Model 4262 Twin Cell

ULTRASONIC CEMENT ANALYZER

A Critical Tool for Cement Laboratories

The Model 4262 Twin Cell UCA is the workhorse for compressive strength determination in busy laboratories. With two cells that can operate independently of each other, the Model 4262 is a must have for laboratories conducting standard oil well cement testing. Designed specifically for the busy laboratory, the Twin UCA will handle the everyday testing with faster turnaround time and less lab space. The cell is much easier to handle making it more user friendly than the large UCA cells designed for more extreme downhole conditions.

A Proven, Reliable Technique

Cement strength is determined by measuring the change in velocity of an ultrasonic signal transmitted through the cement specimen as it hardens. As the strength of the cement specimen increases, the ultrasonic signal's transit time through the sample decreases. Using proprietary algorithms that have been proven throughout the industry, the relative strength is calculated.

Operational Simplicity

The cement slurry to be tested is prepared in accordance with API recommendations, then placed in the unit's temperature and pressure-controlled cell which simulates the curing conditions that are expected downhole. During testing, temperature is automatically controlled while pressure is manually set.

The acoustic measurements are read by an internal computer which automatically performs the complex strength calculations. All test data including the compressive strength results are then transferred to a Windows capable computer, running Chandler Engineering Model 5270 Data Acquisition software. The software produces real-time graphs of the calculated strengths, measured temperatures and transit times.

FEATURES

- ✓ Two Independently Operating UCA Cells
- ✓ Real-Time Observation of Strength Development
- ✓ Used to predict WOC time
- ✓ Non-Destructive Method
- ✓ Uses Proven Industry Standard Algorithms
- ✓ Chandler Engineering Model 5720 Data Acquisition Software

AMETEK® OIL & GAS

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Specifications

Maximum Temperature	400°F / 204°C
Maximum Pressure	5,000 psi / 35 MPa

Utilities

Power	220/240 VAC, ±15%, 50/60 Hz, 8A
Compressed air	75-125 psi / 520—860 kPa
Water	Water, 20-80 psi / 140 to 550 kPa
Drain	Suitable for hot water

Shipping Information

Dimensions (wxdxh)	20 in. x 29 in. x 29 in. / 51 x 74 x 74 cm
Weight	205 lb / 93 kg

Manufacturer's specifications subject to change without notice

AMETEK®

CHANDLER ENGINEERING

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