



CHANDLER ENGINEERING

Model 5265

STATIC GEL STRENGTH ANALYZER

A Breakthrough Tool for Oil Well Cement Testing

Gas migration and water flows through cement are two of the biggest problems facing the petroleum industry. One of the critical measurements required to evaluate the potential for fluid inflow migration problems is the determination of the static gel strength development of the cement slurry.

A breakthrough instrument, the Model 5265 SGSA simultaneously measures both a slurry's compressive strength development and its static gel strength development while it is cured under downhole temperature and pressure conditions.

A Powerful, Proven Technique

Similar to a standard ultrasonic cement analyzer, the cement's properties are inferred by measuring the change in the energy level of an ultrasonic signal transmitted through the cement specimen as it cures. Proven through actual laboratory testing, the proprietary algorithms developed by Chandler Engineering for static gel strength measurement are applicable to a wide range of cement slurry densities and compositions including light weight, heavy weight and latex slurries.

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.

Enhanced Performance

Further enhancing the performance and repeatability of the 5265 SGSA is our Quizix Model Q5220 pump. This is an optional item and when included with the 5265 SGSA, greatly improves the pressure control characteristics of the system. By adding the Quizix Model Q5220 precision pump, pressure is accurately controlled within +/- 25 psi. This reduces the risk of a pressure transient affecting the structure of the gel during the critical gel phase of the slurry under test. Chandler Engineering highly recommends the addition of the Quizix Model Q5220 for any 5265 SGSA installation.



FEATURES

- ✓ Real-Time Measurement of Gel Strength Development
- ✓ Real-Time Measurement of Compressive Strength Development
- ✓ Used to predict WOC time
- ✓ Used to predict gas & water migration susceptibility
- ✓ Non-Destructive Method
- ✓ Uses Proven Algorithms
- ✓ Chandler Engineering Model 5720 Data Acquisition Software

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The acoustic measurements are read by a unique system of sensors and electronics which automatically perform the complex calculations. All test data and results are then transferred to a computer that is running the Chandler Engineering Model 5270 Data Acquisition software. The software produces real-time graphs of the test results which can be printed at any point during the testing.

Specifications

Maximum Temperature
400°F / 204°C

Maximum Pressure
20,000 psi / 137 MPa

Utilities

Power
220 ±10% VAC, 50/60 Hz,
15 A - Heater/solenoid valves

90 - 220 VAC, 50/60 Hz,
1 A - Instrumentation power

Water

Clean pressurizing water, 20-80 psi / 140-550 kPa

Coolant

Clean water or Ethylene glycol solution

Air

Clean, dry compressed air; 50-100 psi / 340-690 kPa

Drain

Suitable for hot water

Shipping Information

Dimensions (wxdxh)
29 in. x 20 in. x 29 in. / 74 x 51 x 74 cm

Weight

205 lb / 93 kg

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



Manufacturer's specifications subject to change
without notice



Model 5265 SGSA with Quizix Model Q5220 Pump



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