CHANDLER ENGINEERING®
AMETEK®

OIL WELL CEMENTING

MECHANICAL GEL STRENGTH APPARATUS

MODEL 5265 MGSA

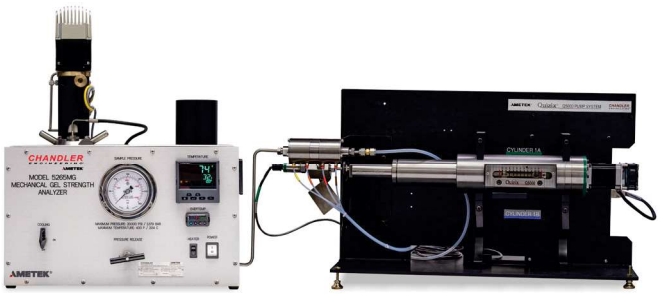
A Critical Tool for Oil Well Drilling and Cementing

The Model 5265 MGSA Gel Strength Analyzer is an addition to Chandler Engineering's world leading line of cement testing equipment. The need to measure gel development, gel duration and gel strength are critical in the design of cement slurries. The Model 5265 MGSA measures the onset of gel strength as well as the continued development of gel strength. This data equips the operator with the knowledge required to optimize slurry designs and meet critical requirements of well placement.

The Model 5265 MGSA utilizes a precision motor and paddle coupled to a reaction force transducer to measure the phase change. The instrument is designed to condition the slurry at 150 RPM and set the measurement of gel strength at 0.2 degrees per minute. As an added function, the motor can be run at an intermittent motor rate. The geometry of the paddle is industry specific or may be adapted to other geometries as needed. The instrument comes complete with the Quizix Precision Pump System for stable and accurate pressure control. Precision pressure control is critical for the accuracy of gel strength measurement and maintaining gel structure.

FEATURES

- 0.2 Degrees/min or Start/Stop Measurement Motor Speeds
- Slurry conditioning at 150 RPM
- Reaction Torque Measurement from 10 lbf/100ft² up to 1500 lbf/100ft²
- Operating Temperature up to 450⁰F (232⁰C)
- Operating Pressure up to 20,000 psi (138 MPa)
- Chandler Engineering Model 5720 Data Acquisition and Control Software
- Quizix Precision Pump System Included



Model 5265 MGSA System with Quizix Precision Pump

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CHANDLER ENGINEERING / AMETEK®

MECHANICAL GEL STRENGTH APPARATUS

MODEL 5265 MGSA

SPECIFICATIONS

Maximum Temperature
450°F / 232°C

Maximum Pressure
20000 psi / 138 MPa

Utilities
Instrument Power
230 VAC, ±10%, 50/60 Hz, 1 phase

Water
20-80 psi / 140-550 kPa

Clean Dry Compressed Air
50-100 psi / 340-690 kPa

Coolant
Water or Ethylene Glycol Solution

Drain
Suitable for Hot Water

Environmental
Indoor Use, Altitude up to 6562 ft /2000 m

Ambient Temperature
60-122°F / 16-50°C

Measurement Specifications
Accuracy: ±1% of F.S. or Better

Paddle Speed Range
0.2 degrees/min - 150 RPM

Pressure Control Accuracy
±25 psi of F.S.

Regulatory
Designed to Meet ASME, CE/PED and NRTL Certifications

API RP10B-6 Compliant

Manufacturer's specifications subject to change without notice

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View more product information on our website:
WWW.CHANDLERENG.COM/PRODUCTS

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