

CIRCULITE™ CS-MIDRANGE LIGHTWEIGHT CEMENT

The CircuLite family of lightweight cements delivers high compressive strength at lower densities to avoid lost circulation while providing excellent zonal isolation. Our CS-midrange formulation is the most economically priced of the three available CircuLite blends. It is ideal for many primary and remedial cementing applications in fragile formations that are susceptible to damage from the excessive pressure that a heavy cement column exerts on the wellbore.

SPECIFICATIONS

Density	10.4 lb/gal
Yield	2.83 ft ³ /sk
Water Requirement	14.22 gal/sk
Free Fluid @ 158°F and 90° Incline	0 ml/250 ml
Fluid Loss	96 ml/30 min

RHEOLOGIES (cP)

(RPM)	80°F	180°F
300	35	60
200	28	48
100	18	35
60	14	28
30	10	21
6	6	13
3	5	9

THICKENING TIME

Temperature (°F)	Consistency (Bc)	Time (hr:min)
182	70	6:40

COMPRESSIVE STRENGTH

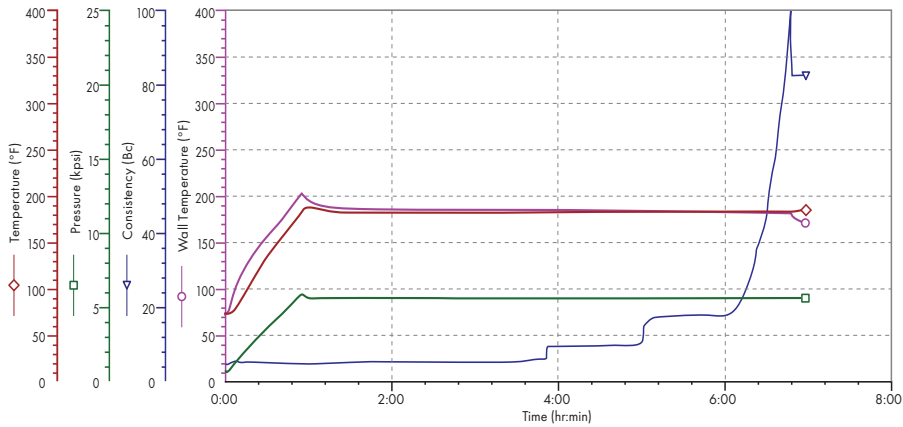
Time (hr)	Temperature (°F)	Strength (psi)
24	133	578
48	133	656
72	133	661

CircuLite CS-midrange lightweight cement accommodates a wide range of wellbore conditions and operational requirements:

- Performs with exceptional reliability in low-pressure, high-porosity zones
- Can be designed with additives to prevent gas migration or further inhibit lost circulation
- Enhances safety and reliability by providing zonal isolation higher in the wellbore, where higher-density cements cannot be circulated

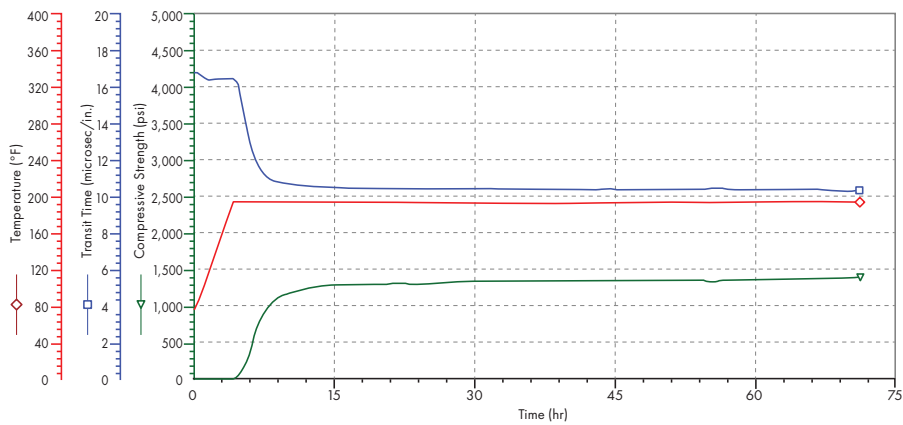
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TOTAL-THICKENING-TIME ATTRIBUTES



CircuLite CS-midrange cement slurry can be customized to deliver high performance between 80-250°F and ranging in density from 9.8-12 lbm/gal.

COMPRESSIVE-STRENGTH DEVELOPMENT



CircuLite CS-midrange cement slurries provide a competitively priced solution that reduces your wait-on-cement time and improves strength development, compared to conventional cement systems in the same density range.