CIRCULITE™ CS-ULTRA 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-ultra blend provides the highest range of compressive strength ratings, accommodates the broadest temperature range and has the greatest slurry resiliency of the three available CircuLite blends.

This fast-setting blend protects well integrity by transitioning quickly between slurry and solid states, which helps to prevent damaging gas influx. It is compatible with all cementing additives to avoid gas migration, further inhibit lost circulation or increase compressive strength. It can be formulated for any application requiring a low-density slurry, such as cementing casing in weak formations.

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

- Performs with exceptional reliability in low-pressure, high-porosity zones
- Withstands perforation and hydraulic-fracturing pressures to provide production-quality cement across pay zones
- Can be blended to meet Texas Railroad Commission requirements for critical-zone cementing

THICKENING TIME

Temperature (°F)	Consistency	Time (hr:min)
143	70	8:23

COMPRESSIVE STRENGTH

Time (hr)	Temperature (°F)	Strength (psi)
24	123	780
48	123	1,096
72	123	1,092

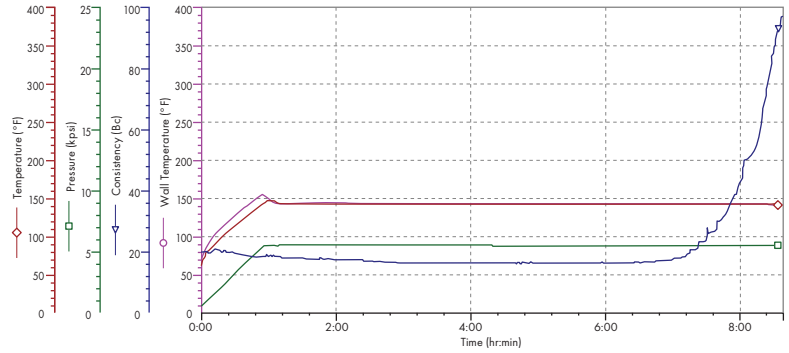
SPECIFICATIONS

Density	10.3 lb/gal
Yeild	2.4 ft^3/sk
Water Requirement	8.95 gal/sk
Free Fluid @ 143°F and 45° Incline	0 ml/250 ml
Fluid Loss	74 ml/30 min

RHEOLOGIES (CP)

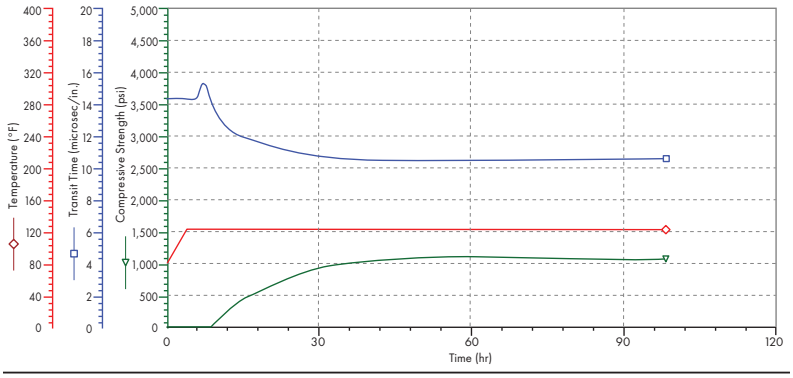
(RPM)	80°F	143°F
300	181	120
200	135	91
100	80	53
60	55	36
30	31	22
6	9	8
3	6	5

TOTAL-THICKENING-TIME ATTRIBUTES



CircuLite CS-ultra cement slurry can be customized to deliver high performance between 80 to 250°F and ranging in density from 9.8 to 11 lbm/gal.

SUPERIOR COMPRESSIVE-STRENGTH DEVELOPMENT



CircuLite CS-ultra cement slurries reduce your wait-on-cement time by delivering unmatched strength development and reaching initial set faster than any other cementing system at the same density.