# COILED TUBING CEMENT KIT

## Product Bulletin

#### GENERAL INFORMATION

Applied Chemical Technologies <u>Coiled Tubing Cement Kits</u> are adaptable to well conditions from 80° F to 300° F. The <u>Coiled Tubing Cement Kits</u> are designed and tested specifically for optimum performance in coiled tubing cementing operations. The <u>Coiled Tubing Cement Kit</u> contains Class H Cement plus a dry proprietary blend, which is mixed in our Gulf Coast facility yielding a thin, mixable slurry with excellent surface pumpability and exceptional downhole strength and slurry stability.

### PHYSICAL PROPERTIES

Yields:

3 bbls

Density:

16.2 ppg

Yield:

1.10 cuft/sk

Mix Water:

5.65 gals/sk

Total Water:

66 gals

#### CHEMICAL DESCRIPTION

Each <u>Coiled Tubing Cement Kit</u> is custom to each job parameter and situation. If special properties are required, the <u>Coiled Tubing Cement Kits</u> are engineered and designed to those conditions. When temperatures are above 230°F each <u>Coiled Tubing Cement Kit</u> is supplied with fine silica for strength retrogression prevention. The dry blended proprietary package includes a wide utility fluid loss agent, dispersant, and an antisettling agent. The combination of these chemicals provide a thin, easily mixable and pumpable slurry at surface, excellent downhole fluid loss control, strength stability and a controlled thickening time. High or Low temperature liquid retarder is supplied with each <u>Coiled Tubing Cement Kit</u> for thickening time control that is dependent on the temperature application and based on actual laboratory testing.

## RECOMMENDED USES

<u>Coiled Tubing Cement Kits</u> are typically used at temperature levels of 80° F to 300° F. If the well-bore conditions dictate a temperature above 300°F, then special laboratory testing will be performed to acquire the correct retarder loading for a controlled thickening time.

## **PACKAGING**

<u>Coiled Tubing Cement Kits</u> are furnished in bulk cement super sacks dry blended with the proprietary package of chemicals and then heat-shrinked on a pallet for delivery. Applied Chemical Technologies provides custom blending if special blends or volumes are requested.

## **A**VAILABILITY

<u>Coil Tubing Cement Kits</u> are conveniently warehoused on the Gulf Coast, in Broussard, LA for quick and easy pickup or delivery 24 hours/day 365 days/year





#### **Coiled Tubing Kit Laboratory Testing Report**

PROJECT #: WELL NAME: CUSTOMER: CONTACT: JOB TYPE: MD: TVD FIELD	14-5027 Multiple Wells  CT Squeeze/Plug 10000 10000			- - - - - -	BHCT: BHST: 217 BHSqT: 185 MUD TYPE: Lease MUD WT: 9 SPACER: Lease SPACER WT: 9			185 Lease 9 Lease			
Cement- 3 BBLS	Lehigh Class H	-		Units #/sk	_	CT Plug					
Function-	Additives-				Water-		Concentra	<u>ıtion</u>		Coiled Tubin	g Kit
Fluid Loss	CFL-18 CD-37		-		Fresh		4.5	54 gal/sk		69.43 ga	l/kit
Dispersant Anti Settling Retarder	CASA-51 CR-100L		1.50 gal/kit		Total Mix	4.54 gal/sk		i4 gal/sk	69.62 gal/kit		
Foam Preventer	CFP-90L	-	0.15 gal/kit	•	Slurry Density- 16.20 ppg			20 ppg			
					Slurry Yield -		1.0	9 cuft/sk			
Results											
Comments/ Reco	Measured Dens Slurry(ppg) - Spacer(ppg) - Mud(ppg) - Thickening Time BHCT - 75%:25% Contar Other Thickening  Static Fluid Los Test Temp(°F) - Collected fluid (m Time (min.) - API Fluid Loss(m Calculated API (m	e Test - minated - y Times s- nl.) -	16.20 40 Bc at  185 23 30 46	70 Bc at 6:18	Comp Top of Liner	Free Fluid Test Temp( Measured ( Free Fluid ( Oressive Stree Test Temp.  Compressiv	rF): mL): %): ength - (°F) - 50 1765 3904 ve Strength (°F) -	185 0 0.0 0.0 217 0 psi at - 0 psi at - psi at - psi at - psi at - 0 psi at - 0 psi at - 0 psi at - psi at -	7:54 8:56 12 hrs 24hrs 48hrs 72hrs 12 hrs 24hrs 48hrs 72hrs	]	
COILED TUBING PL ADD TOTAL FRESH ACTION, BEGIN AD	WATER REQUIREM		ER. ADD TOTAL CR-	100L(LOW T	EMP RETARDER	) WHILE BLEN	DING. ALLOW	V TO BLEND WI	TH FRESH V	VATER USING TU	RBULENT
Rheology(°F)-	80°F	-									
Rpm - Cement	300 220	200 151	100 109	60	30	6	3	PV	YP	10 Sec Gel	10 Min Gel
Spacer Mud	220	101	109	66	22	15	8	167	54	13	29
Rheology(°F)- Rpm -	185°F 300	200	100	60	30	6	3	PV	YP	10 Sec Gel	10 Min Gel
Cement Spacer	201	125	99	64	23	9	3	153	48	12	32
Mud											