



Cola® Drill 100

Water-soluble Brine Lubricant

LISTINGS

US (TSCA), Canada (DSL), EU (REACH), Australia (AICS), China (IECSC/IECIC), Korea (KECI), Philippines (PICCS), New Zealand (NZIoC), Taiwan (TCSI)

Cola®Drill 100 is a water-soluble brine lubricant. It reduces friction in seawater, sodium chloride, sodium bromide, calcium chloride and calcium bromide completion fluids. The phospholipid mimetic chemistry offers exceptional reduction in metal-to-metal friction when added to brine-base completion fluids at extremely low concentrations.

Cola®Drill 100 is able to reduce torque and drag up to 80% at extremely low concentrations in field applications.

BENEFITS

- Reduce the coefficient of friction in seawater, sodium chloride, sodium bromide, calcium chloride, and calcium bromide drilling or completion fluids
- Highly efficient in reducing torque and drag in drilling in extreme pH and high temperatures
- Broad antimicrobial spectrum
- Plant derived novel chemistry
- Mild to eye and skin contact, safer than many existing lubricants for operation personnel

APPLICATIONS

- Completion fluids
 - Suggested dosage: 0.1% in completion fluids

TYPICAL PROPERTIES

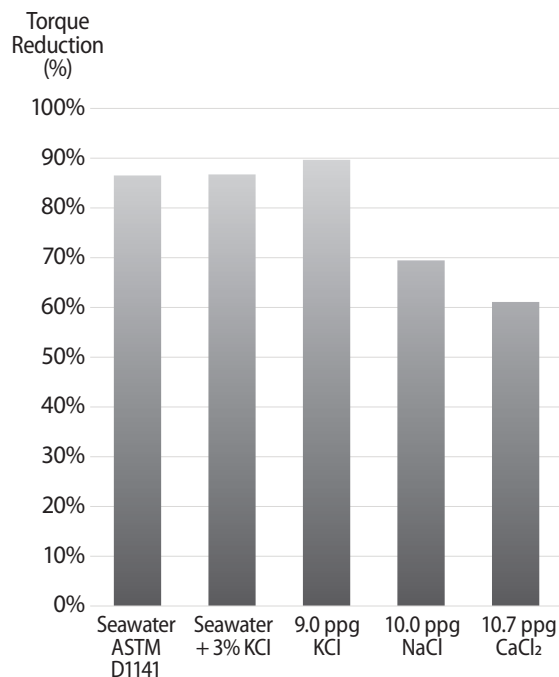
Appearance @ 25°C	Clear Liquid	
% Solids	46.5	
pH (@ 10% aqueous)	7.0	
% NaCl	6.0	
Color, Gardner '98	3 Max.	
Ross-Miles Foam Height (1% active solution, 25° C, DI water), mm	Immediate	155
	1 Minute	140
	5 Minutes	135
Surface Tension in Water	1.0% active	41.1
	0.1% active	41.5
	0.01% active	43.1
	0.001% active	51.2
Caustic Solubility (5% product added to NaOH)	30% NaOH	

LUBRICITY TESTING

Coefficient of Friction (CoF) Results
Test Condition 60 rpm, 150 in-lb.

	Brine Only (CoF)	0.1% ColaDrill 100 (CoF)
Seawater ASTM D1141	0.36	0.05
Seawater + 3% KCl	0.37	0.05
9.0 ppg KCl	0.38	0.04
10.0 ppg NaCl	0.37	0.11
10.7 ppg CaCl ₂	0.26	0.10
11.6 ppgCaCl ₂	0.09	0.09

Torque Reduction in Brine Solution (0.1% Cola®Drill 100 by volume)



STORAGE AND HANDLING

Cola®Drill 100 should be stored in closed containers. Shelf life is 24 months from date of manufacture. Cola®Drill 100 is shipped in 55-gallon drums, net weight 450 lbs (204.1 kg). Complete Safety Data Sheet may be downloaded at www.colonialchem.com.



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