



WATER BASED DRILLING MUD/BRINE LUBRICANT

ELIXIR ECONO LUBE is our most ECONOmical, high performance, environmentally superior water-based mud/brine lubricant, formulated to operate at concentrations as low as 0.125% v/v.

ELIXIR ECONO LUBE offers outstanding environmental properties across all sectors including OSPAR, UK, Norway, Denmark, and US GOM and is classified as Non-Hazardous to Health under UK/EU Legislation. Please check with us for the latest environmental classification in your area.

ELIXIR ECONO LUBE offers excellent torque reduction across a wide range of mud and brines as demonstrated below using the Falex Pin and Vee Lubrication Tester.

NaCl Brine S.G. 1.2			
	Torque (Lb.in)		
Load (lbs)	0% Lube	0.125% v/v Lube	% Torque Reduction
100	8.4	1.7	80
200	17.5	4.4	75
300	18.9	6.5	66
400	24.9	8.7	65
500	43.3	10.2	76
600	60.2	12.1	80
700	FAIL	14.0	-
800		16.0	-
900		18.3	-
1,000		20.6	-
1,100		22.3	-
1,200		24.0	-
1,300		26.2	-
1,400		FAIL	-

NaCl WBM S.G 1.25			
	Torque (Lb.in)		
Load (lbs)	0% Lube	0.125% v/v Lube	% Torque Reduction
100	8.6	2.0	77
200	14.9	5.3	64
300	22.6	10.3	54
400	33.7	12.7	62
500	43.4	13.3	69
600	43.0	12.8	70
700	43.5	13.0	70
800	FAIL	FAIL	-

Please note that we offer a lubricant testing service free of charge to potential customers and we can adjust our products where necessary towards specific applications

ELIXIR ECONO LUBE is suitable for use in a wide range of mono and divalent water-based systems and typically offers good performance at concentrations as low as 0.125% v/v.

For more demanding monovalent systems our ELIXIR DRILL LUBE may offer further performance improvements.

PHYSICAL PROPERTIES	
Appearance	Yellow Fluid
Pour Point (°C)	< -10°C
Specific Gravity	1.025 gcm ⁻³
pH (neat)	9.5
pH Deionised Water	6.0
pH (1% v/v Dilution in DI)	6.0 (No change)
pH (0.25% v/v Dilution in DI)	6.0 (No Change)

Falex Pin and Vee lubrication tests were carried out using Subsea Chemistry's Test Protocol TP018.

Briefly, the Falex pins are immersed in the fluid under test, the load applied increased to 100 lbs force (1334 N) and then held for 1 minute after which the torque reading is taken.

The applied load is then increased in 100 lbs force increments until there is a sudden increase in torque observed or the next loading cannot be achieved.



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