Blue Lotus Chem

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TECHNICAL DATA SHEET

Product Name

Glide-Ease

Extreme Pressure (EP) Lubricant

"Delivers superior performance by maintaining low friction and high film strength even under prolonged use and elevated temperatures, making it highly effective in challenging drilling environments."

PRODUCT DESCRIPTION

Glide-Ease is an **extreme pressure lubricant** designed to minimize friction pressures in **metal-to-metal environments** found in horizontal and extended reach wells.

GLIDE-EASE BENEFITS

- Glide-Ease allows rapid incorporation into active drilling fluids and immediate EP lubrication benefits.
- Works well in low-pressure environments.
- Helps prevent 'grease-out' and offers superior performance compared to fatty acid-based lubricants.

KEY CHALLENGES

- Prevent casing wear
- Reduce torque-and-drag on the drill string
- Minimize formation damage

LUBRICITY EVALUATION (2% by volume Glide-Ease):

- **Water (bbl):** 0.98 across all scenarios
- **Gel (lb):** 20 across all scenarios
- **Conventional EP lubricant (bbl):** 0.02 only in one scenario
- **Glide-Ease lubricant (bbl):** 0.02 in one scenario

PROPERTIES

Values are provided under different conditions	With Conventional EP Lubricant	With Glide-Ease Lubricant	Measurements determined by
Coefficient of Friction			***Baroid*** *Lubricity Meter*
Initial	**0.50+**	**0.15**	
After 16 hours at 150°F:	**0.50+**	**0.11**	
EP Film Strength (psi)			***Baroid*** *EP Lubricity Device*
Initial	**2,960**	**13,300**	
After 16 hours at 150°F:	**1,480**	**26,600**	
Stabilizing (psi) in other tests	**21,300**	**24,400**	

Effectiveness in High-Performance Water-Based Mud using different test bases, A and B

FLUID COMPOSITION	Base	A	B
Water, bbl	1.0	1.0	1.0
Bore-VIS™, lb	1	1	1.4
Clay Grabber, lb	0.25	0.25	0.25
Bore-Plus™, lb	0.75	0.75	0.75
Polyac-Plus, lb	0.5	0.5	0.5
Diesel, % by volume	--	2	--
Glide-Ease, % by volume	--	--	2
TEST TEMPERATURE (°F)	120°F	120°F	120°F
ROTATIONAL SPEED AND RESULTS			
600 rpm	50	50	51
300 rpm	31	31	31
200 rpm	24	23	23
100 rpm	15	15	14
6 rpm	3	3	2
3 rpm	2	2	1
RHEOLOGY (flow behavior)			
Plastic Viscosity (cP)	19	19	20
Yield Point, lb/100 ft^2	12	12	11
10 sec gel, lb/100 ft^2	3	2	2
10 min gel, lb/100 ft^2	8	7	8
COEFFICIENT OF FRICTION *Determined by Baroid Lubricity Meter	0.325	0.320	0.06

SUMMARY

- **Newest and Best Performing Technology Available Today**
- **Extremely Cost-Effective** (Lowest treatment rate)
- **Performance Features:**
    - Non-damaging to formations
    - Easily integrates with any mud system
    - Performs equally well before and after heat aging/hot rolling
    - Enhanced tolerance to chemical contamination in drilling fluids

For more information or to request a quote,
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