

Lubricity Coefficient For
ProOne Bio-Stable Downhole Drilling Fluid

Lubricity Results:

Test Method: Baroid Lubricity Meter (Metal/Metal)

Water Coefficient of Friction: 1.0

Coefficient of Friction recorded at 78°F			
Ultra Carb System	Initial	Dynamic 150F, 16 hr	Static Age 200F, 16 hr
Blank	0.350	0.221	0.283
2% Bio-Stable Lube	0.049	0.061	0.080
4% Bio-Stable Lube	0.062	0.040	0.039
6% Bio-Stable Lube	0.040	0.043	0.041

Coefficient of Friction recorded at 200°F	
Ultra Carb System	Initial
Blank	0.344
2% Bio-Stable Lube	0.061
4% Bio-Stable Lube	0.024
6% Bio-Stable Lube	0.029

Confidential

8/10/2011