

DriFlow 4™ Product Data Sheet

Application

DriFlow™ 4 is an advanced dry state polyacrylamide designed to provide enhanced rheological properties and fluid friction reduction. For stimulation operations, DriFlow 4™ should be continuously added to fluid under low shear, dynamic conditions. Product loading can vary depending on water quality, proppant concentration and reservoir characteristics. Contact info@stimchems.com for additional application guidance and usage optimization.

Product Specifications

Form @ 70°F:	Granular
Color:	White
Charge:	Anionic
Freeze Point:	N/A
Hardness Range:	0 – 2,000 mg/L
pH (5 g/L solution):	5.0 – 10.5
Bulk Density (kg/m ³):	600 – 900
Solubility:	Water Soluble Oil Insoluble

Fann 35 Readings @ 300 RPM

Water Quality	Viscosity Range (cP)		
	Loading (gpt)		
Freshwater	1.0	2.0	3.0
Hardness 46 ppm TDS 700 ppm	3.5 - 4.0	6.5 - 7.0	8.5 - 9.0
Hardness 15 ppm TDS 190 ppm	5.5 - 6.0	8.5 - 9.0	11.0 - 11.5
Hardness 4 ppm TDS 20 ppm	7.0 - 7.5	11.5	15

Dry to Liquid Conversion

GPT	PPT, HVFR	PPT, Slickwater
0.25	0.68	0.43
0.50	1.35	0.85
1.00	2.70	1.70
1.50	4.05	2.55
2.00	5.40	3.40

The PPT to GPT ratio is calculated using normal concentrations of active polymer (FR) in both HVFR and Slickwater emulsion friction reducers.

HVFRs typically contain 2.7 pounds of FR per gallon of emulsion and Slickwater FRs typically contain 1.7 pounds of FR per gallon of emulsion.

Friction Reduction Capability

DriFlow™ 4 exhibits a maximum friction reduction that can vary dependent on water quality, reservoir characteristics and completions design. The friction flow loop below serves as a baseline for expected friction reduction in a freshwater application. Under wellbore conditions, a higher loading may be needed to achieve maximum friction reduction capability.

Note: If maximum friction reduction is reached, increasing loading beyond this point may lead to unintended viscosifying that results in pressure build up, counteracting the expected pressure relief from friction reduction.

