

Viscosifier/Borehole Stabilizer

Description	QUIK MUD [®] D-50 liquid polymer dispersion is a high solids, partially hydrolyzed polyacrylamide/polyacrylate (PHPA) copolymer used primarily as a viscosifier and borehole stabilizer to prevent reactive shale and clay from swelling and sloughing. QUIK MUD D-50 liquid polymer dispersion can be used to provide friction reduction, inhibition and lubricity in freshwater, KCI and saltwater based drilling fluids.		
Applications/Functions	The use of QUIK MUD D-50 polymer	assists or promotes the following:	
	Viscosity development in fresh water drilling fluids		
	Clay and shale stabilization to prevent	swelling and/or dispersion	
	Reduce rotational torque and circulatin	g pressure	
	 Promotes enhancement of air-foam system capabilities 		
	Enhances core recovery in continuous wireline coring operations		
Advantages	Can be mixed easily with minimum shear in fresh water		
	Efficient and cost effective - small amounts produce desired results		
	Can be broken down chemically with bleach (sodium hypochlorite)		
	Compatible with other Baroid drilling fluid additives, added in proper sequenceNon-fermenting		
	NSF/ANSI Standard 60 certified		
Typical Properties	Appearance	Milky white liquid	
	 Specific Gravity @ 20°C (Water=1) 	1.08 – 1.12	
	Percent Activity	50%	
	 Bulk density @ 20°C, lb/ft³ 	68.6	
	pH of a 0.5% solution	6-8	
Recommended	Using a Venturi Mixer, or into vortex of a high-speed stirrer, add slowly and		
Treatment	uniformly to the entire circulating system	m.	

Approximate Amounts of QUIK MUD® D-50 Liquid Polymer Added to Water Based Fluids				
Drilling Application/Desired Property	Quart/100 gal	Pint/bbl	Liter/m ³	
To Formulate a Clay-Free Drilling Fluid	0.3 – 2.5	0.25 – 2	2.5 – 6.5	
Added to QUIK-GEL [®] or BORE-GEL [®] drilling fluids	0.3 - 1	0.25 – 1	1.25 – 2.5	
To improve foam performance and hole conditions	0.3 – 1	0.25 – 1	1.25 – 2.5	





Additional Information

For optimum performance in freshwater applications, the make-up water used to mix QUIK MUD[®] D-50 liquid polymer dispersion should meet the following:

- Total chloride less than 1500 ppm (mg/L)
- Total hardness less than 100 ppm as calcium
- Total chlorine less than 50 ppm
- Water pH between 8.5-9.5
- Reduce total hardness of make-up water by adding Soda Ash at 0.5 to 1 pound per 100 gallons (0.6 1.2 kg/m³) of make-up water.
- QUIK MUD D-50 liquid polymer dispersion can be chemically broken down with regular household liquid bleach (5% sodium hypochlorite). Use one gallon of liquid bleach per 100 gallons (10 liters/m³) of formulated fluid.

Do not use perfumed liquid bleach or solid calcium hypochlorite.

Packaging QUIK MUD D-50 liquid polymer dispersion is packaged in 5-gal (19-liter) plastic containers.