PRODUCT BULLETIN

NewPHPA™ DSL

SHALE INHIBITOR/ENCAPSULATOR

NEWPARK DRILLING FLUIDS
www.newparkdf.com

PRODUCT DESCRIPTION

NewPHPA™ DSL shale stabilizer and encapsulator is a versatile, extremely low molecular weight, medium charge polyacrylamide designed primarily to provide shale stability and encapsulation in water-based drilling fluids. Because of its low molecular weight, it has considerably less effect on rheology than NewPHPA™ and NewPHPA™ D polyacrylamides, thereby allowing for treatment with higher concentrations. NewPHPA DSL microbeads dissolve rapidly into the system.

BENEFITS

Shale Inhibitor: NewPHPA DSL additive is an efficient shale encapsulator, particularly when used in combination with the potassium ion. It coats drill cuttings, thus allowing their removal through the solids control equipment before becoming dispersed in the active system.

Flocculant: NewPHPA DSL additive can be used as a flocculant in non-dispersed systems to enhance the removal of drill solids.

Lubricant: NewPHPA DSL additive reduces torque and drag.

APPLICATION

NewPHPA DSL shale encapsulator can be used in freshwater, seawater and sodium or potassium chloride brines. NewPHPA DSL acts primarily as a shale inhibitor. NewPHPA DSL also works as a flocculant and lubricant, although not as effectively as other NewPHPA additives.

TREATMENT RECOMMENDATION

Concentrations of 1-4 lb/bbl are recommended. The microbeads should be added directly through the hopper.

TYPICAL PHYSICAL PROPERTIES

Appearance	White microbead
Bulk Density	50 lb/ft^3 (801 kg/m^3)
Molecular Weight	~1,0000,000
pH (0.5% solution)	4.0-9.0

HANDLING AND STORAGE

Keep material dry as NewPHPA DSL microbeads are extremely slippery when wet. Use appropriate hygiene, clothing and personal protective equipment suitable for work being done. Review the SDS thoroughly before using this product.

PACKAGING

NewPHPA DSL shale stabilizer and encapsulator is available in 50-pound (22.7-kilogram) multi-walled bags.