

AMC CLAY DOCTOR L™

CLAY & SHALE STABILISERS



Description

AMC CLAY DOCTOR L™ is a versatile modified encapsulating polymer used in water based drilling fluid systems to provide stability when encountering reactive clay and shale formations. AMC CLAY DOCTOR L™ has a charge density and molecular weight that are uniquely adjusted to maximise encapsulation with only a minimal increase in viscosity.

Application

AMC CLAY DOCTOR L™ will disperse quickly into a solution with minimal shear to produce a highly effective manageable fluid that will aid in combating swelling, sloughing and dispersion, while enhancing downhole lubrication and improving sample recovery. AMC CLAY DOCTOR L™ acts as a friction reducer, is a mild flocculant and when used in high concentrations causes no appreciable increase in viscosity, thus maintaining low circulation pressures.

AMC CLAY DOCTOR L™ is ideal for highly dispersible fragile clays where potassium inhibition is often not required or where the use of conventional PHPA-type polymers can result in excessively high viscosities. AMC CLAY DOCTOR L™ is tolerant to saline environments however to achieve maximum potential from the products the total hardness values should be maintained below 400mg / L and a pH range of 8.5 – 9.5.

Typical Physical Properties

Appearance:	White, free flowing granules
Specific gravity:	0.5 – 0.7
pH (1% solution):	7 – 8

Please Note: Several factors will dictate the most appropriate concentration rate. Please contact your nearest AMC representative for optimum results.

Advantages

- Single component multifunctional system
- Compatible with slim hole drilling
- Enhances hole stability
- Provides sample protection
- Maintains sample integrity
- Controls dispersion
- Improves solids separation on surface
- Readily disperses in low shear environments
- Environmentally acceptable.

Recommended Treatment

AMC CLAY DOCTOR L™ can be mixed directly into the active mud system or premixed at higher concentrations separately and blended into the active system. For best results it can be slowly introduced into mechanical agitation, through a mud hopper or a high shear mixing device.

APPLICATION	KG / M ³	LB / BBL
Add to fresh water under normal drilling conditions	0.5 – 2.5	0.15 – 1.0
To stabilise clays and shales	2.0 – 8.0	0.5 – 3.0
To improve foam performance	1.0 – 3.0	0.35 – 1.0

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