



HI-THIN II

NEW GENERATION MUD THINNER/CONDITIONER

DESCRIPTION

HI-THIN II is a premium grade compound designed specifically for use as a thinner/dispersant, and clay/shale stabilizer in lime drilling fluids. It's typical properties are as follows:

Description	Drilling lime mud thinner and shale stabilizer
Appearance	Brown powder
Bulk Density	Approx. 36 lbs/ft ³
Moisture Content	Approx. 6% (@ plant)
Solubility in Water	Completely soluble
pH (10% soln)	Approx. 4-8

APPLICATION

HI-THIN is superior to competitive products on the market, such as the low MW starch-based materials for a variety of reasons. It is strongly anionic at high pH ranges, and has a strong encapsulating capacity. This is very important, because the presence of lime is not enough to ensure protection. You need encapsulation, and the competitive products, specifically the low MW dextr. starches, do not encapsulate. This means that lime mud systems containing HI-THIN II allow for more complete mud recovery, when compared to all competitive products. In addition, HI-THIN II is designed to work at temperatures up to 450 °F, in mu ds above 15 ppb, and in the presence of reactive shales. The low molecular starch-type products are not. This material educes gel strengths as well as viscosity, without causing the excessive breakover reductions that are typical of standard lignosulfonate products.

In fresh, brackish, and seawater muds, HI-THIN II provides cost effective deflocculation at low dosages. It also reduces loss and improves filter cake quality. Because it has very low loading requirements and is cost effective when compared to other materials available, it is easy to see how HI-THIN II outperforms all competition.

HI-THIN-II is very effective at all pH ranges, and in the presence of contamination. HI-THIN II also may be used to reduce the water content of dispersed systems without sacrificing flow capability. HI-THIN II is considered non-toxic to the environment, and safe to use.

RECOMMENDED TREATMENT

Freshwater muds:	0.5 - 1.0 ppb
Lime muds:	up to 4.0 ppb
Seawater muds:	0.5 - 3.0 ppb
High-Temperature Systems:	up to 4.0 ppb



PACKAGING & HANDLING

HI-THIN II is packaged in either 50 lb or 25 kg multi-wall bags.

Store in a cool, dry area. Avoid moisture and oxidizing agents. Dust can be an irritant, so protective equipment (goggles, gloves, etc.) is recommended when handling. HI-THIN II is not considered flammable or explosive.

HI-THIN II is a Messina trademark

