RAPID DRILLING PRODUCTS
A Rapid Energy Services Company

Product Data

RAPID SHALE CONTROL™

POLYMERIC SHALE INHIBITOR

Description:

Rapid Shale-Control™ represents a new class of shale stabilizers. The copolymer technology used in the Rapid Shale-Control™ product is a major improvement in the application of shale control additives used in water based drilling and air drilling operations. The Rapid Shale-Control™ locks onto shale and becomes a part of the whole structure. Much like the effect of KCl but in a more permanent manner. The Rapid Shale-Control™ is manufactured to be totally compatible in most mud systems and air drilling foaming applications. The product is amphoteric which means it is cationic on one end of the polymer and anionic on the other end. The cationic portion provides excellent shale control while the anionic end makes the product compatible with anionic drilling fluid systems. The Rapid Shale-Control™ is shear resistant due to its shorter chain length, which relies on the cationic functionality instead of molecular weight. Shear does not degrade the performance.

ADVANTAGES:

- ⇒ Highly effective shale control
- ⇒ More effective than KCl (Potassium chloride)
- ⇒ Not affected by shear when used in air foam drilling
- ⇒ Both cationic for shale and anionic for fluid compatibility
- ⇒ Easy to handle liquid

APPLICATION:

Rapid Shale-Control™ is a liquid and easy to use. A starting point for application is 2 ppb to 4 ppb.

PHYSICAL PROPERTIES:

Appearance	White Liquid
Density	8.83 to 9.00 lbs / gal
Specific Gravity	1.06 to 1.08
pH(neat)	6.0 to 8.0
Charge in solution	Amphoteric
Solubility in Water	Partial
Flash Point, TCC	350° F (177°C)

PERFORMANCE:

Shale testing shows that in a 16-hour roller oven test, shale samples retain only 30% of its original size when tested in fresh water alone. After treated with Rapid Shale-Control™ the shale retains over 90% of its original size. Most commercial shale control products provide similar results until they shear under circulation. The Rapid Shale-Control™ retains its initial performance over time and shearing.

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