

RAPID SHALE-FIX™

POLYMERIC SHALE CONTROL

Description:

Rapid Shale-Fix™ is a low-to-medium molecular weight, medium anionic charge, partially hydrolyzed polyacrylamide (PHPA) supplied as a low viscosity emulsion. This shale stabilizing product is a versatile polymer that can be used in water-based (KCl or Seawater) drilling muds. It is formulated to mix easily in drilling muds and yield results quickly. The low molecular weight of the Rapid Shale-Fix™ provides excellent shale inhibition by encapsulating reactive shale particles without significantly increasing the drilling fluid's viscosity. Rapid Shale-Fix™ is shear thinning and assures maximum power at the bit under high shear while retaining excellent carrying capacity under low shear conditions.

ADVANTAGES:

- ⇒ Highly effective shale inhibitor
- ⇒ Friction reducer / lubricant
- ⇒ Reduces fluid loss
- ⇒ Easy to handle liquid

APPLICATION:

Rapid Shale-Fix™ is supplied as an easy-to-use liquid. The product can be used alone or in conjunction with KCl to stabilize active shales by decreasing the shale's tendency to absorb water, swell and slough off. An additional benefit to using Rapid Shale-Fix™ is the reduction in fluid loss values. The recommended dosage is 0.5 ppb to 2 ppb of water-based mud volume, as supplied.

The addition of Rapid Shale-Fix into a drilling fluid will help reduce turbulent flow, friction and power losses at points of high shear. Lowering turbulent flow also helps to reduce erosion and washout of sensitive geological structures.

PHYSICAL PROPERTIES:

Appearance	Opaque Liquid
Density	8.83 to 9.00 lbs / gal
Specific Gravity	1.02 to 1.06
pH(neat)	6.5 to 7.5
Charge in solution	Anionic
Solubility in Water	Partial
Flash Point, TCC	> 200° F (>93°C)
Pour Point	5° F (-15° C)
Shelf Life	6 months – 1 year

STORAGE AND HANDLING:

The product is an invert emulsion polymer in a deodorized mineral oil carrier. Some settling of the product in the mineral oil carrier is noted upon protracted storage situations. For the best shelf life, the product should be stored at temperatures between 40°F and 135°F. Applications are easiest when the product is at temperatures above 20° F.

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