PRODUCT BULLETIN

ConveCT™

pH Buffer

NEWPARK DRILLING FLUIDS
www.newparkdf.com

Description

ConveCT™ pH buffer is an amine-based product aimed at preserving naturally derived polymers from heat-induced degradation in situations where borehole temperatures exceed their normal operating range. It was developed for use in Newpark's proprietary ResurreCT™ coiled tubing system. The product has the added benefit of alkalinity control.

Benefits

- Saves cost on naturally derived polymer additions by extending life of existing polymers in fluids
- Contains an inherent alkalinity feature that is more stable and less hazardous than other pH sources (such as caustic soda)
- Not affected by hardness from divalent cation sources
- Prevents against polymeric degradation sources such as oxidation and hydrolysis
- Has the ability to extend temperature limitations by up to 30°F (17°C)

Application

- Controls alkalinity in high-hardness brines containing divalent cations such as calcium or magnesium
- Safe replacement for hazardous alkalinity sources such as caustic soda
- Extends polymer life by preventing degradation via hydrolysis and oxidation

Treatment Recommendation

To prevent polymeric degradation, ConveCT pH buffer should be added to the fluid system in concentrations of 1.75-3.5 lb/bbl. Routine additions should be made to maintain a system pH of 9.0-10.0.

Typical Physical Properties

Appearance	Clear liquid
Flash Point	199°F (93°C)
pH (50% solution)	12.1
Specific Gravity	1.0 - 1.2

Handling and Storage

Avoid inhalation of fumes. Avoid contact with skin and eyes. Keep containers tightly closed in a dry, cool, and well-ventilated area. Use appropriate hygiene, clothing, and personal protective equipment suitable for work being done. Review the SDS thoroughly before using this product.

Packaging

ConveCT pH buffer is available in 55-gallon (208-liter) drums.