

Product Data Sheet

Introduction

- UBDrill-131 shale inhibitor is a low-molecular-weight polymer blended liquid containing povidone & polyamine derivative to provide superior inhibition of reactive clay and reduce swelling of sensitive shales exposed to water-based drilling fluids.
- UBDrill-131 is the primary shale inhibitor of polyamine high-performance water-based drilling fluid system. It acts as a clay hydration suppressant by intercalating and reducing the space between clay platelets so that water molecules will not penetrate and cause shale swelling.
- UBDrill-131 can also flocculate any dispersed clays or colloidal particles and aids their removal by solids control equipment to achieve shear-thinning properties. UBDrill-131 is suitable in fresh water, seawater and monovalent brines up to 300°F.

Typical Properties

Appearance	Yellow to light yellow viscous liquid
Specific gravity	1.03
pH	9.0-9.5

Applications/Functions

- Provides excellent shale inhibition and maximized cuttings integrity
- Reduces accretion potential and consequently bit balling
- Flocculates any dispersed clays or colloidal particles and aids their removal by solids control equipment
- Minimizes dilution rates

Advantages

- Temperature stable up to 300°F but may achieve higher if use oxygen scavengers
- Highly effective in KCl/Polymer water-based drilling fluids
- Environmentally acceptable both onshore and offshore applications

Recommended Treatment

- A typical treatment range is 1.5-3% by volume

Package

- 55GAL DRUM, 275GAL IBC totes

Product Data Sheet

Introduction

- UBDrill-132 shale inhibitor is a blended liquid containing polypropylene glycol & poly ether amine acetate to provide superior inhibition of reactive clay and reduce swelling of sensitive shales exposed to water-based drilling fluids.
- UBDrill-132 is the primary shale inhibitor of polypropylene glycol high-performance water-based drilling fluid system. It acts as a clay hydration suppressant by intercalating and reducing the space between clay platelets so that water molecules will not penetrate and cause shale swelling.
- UBDrill-132 can undergo ion exchange reactions with metal ions such as sodium or potassium on the surface of clay particles and inhibiting the hydration and expansion of clay.

Typical Properties

Item		Specification
Appearance		Colorless to Light Yellow
Density, g/cm ³		1.0~1.10
Flash Point, °C		93min
pH		5-10
Total Amine	mmol/g	≥3

Applications/Functions

- Provides excellent shale inhibition and maximized cuttings integrity
- Reduces accretion potential and consequently bit balling
- Flocculates any dispersed clays or colloidal particles and aids their removal by solids control equipment
- Minimizes dilution rates.

Advantages

- Temperature stable up to 300°F but may achieve higher if use oxygen scavengers
- Environmentally acceptable both onshore and offshore applications

Recommended Treatment

- A typical treatment range is 1.0-2.0% by volume.
- Use normal precautions for employee protection when handling chemical products referring to Safety Data sheet.

Package

- 55GAL DRUM, 275GAL IBC totes.