

# STAR HIB<sup>®</sup> PLUS

## Shale Inhibitor

## Product Specifications



### DESCRIPTION

STAR HIB<sup>®</sup> Plus shale inhibitor is a proprietary inhibitor designed for use in water-based (WBM) drilling fluids. STAR HIB Plus is used in formations that contain reactive clays such as smectite and mixed layer illite/smectite. Unlike conventional shale inhibitors, STAR HIB Plus does not require KCl or other salts for inhibition.

### ADVANTAGE

Used when drilling in environmentally-sensitive areas where KCl cannot be used

Compatible with all common WBM additives and reservoir compliant

Resistant to contaminants

Temperature stability up to 149°C (300°F)

### APPLICATION

Designed for use in environmentally-sensitive areas

Equally effective in fresh water-, sea water- or brine-based drilling fluid systems

### ENVIRONMENTAL ADVANTAGE

Environmentally compliant for use in all areas

CEFAS and REACH registered

PLONOR listed for North Sea use, HMCS Category P, OCNS Group E

Passes the Canadian Microtox

### TREATMENT RECOMMENDATIONS

Effective at concentrations as low as 3-5 wt% for most shales and depletion rates are similar to KCl-glycol fluids

Can be mixed directly into the fluid system through the hopper, straight into the pit or gravity feed dispenser

### PHYSICAL PROPERTIES

Appearance: Pale Yellow - Amber

Specific gravity: 1.05 g/cm<sup>3</sup> (8.76 lb/gal)

pH: 11 at 25°C (77°F)

Water Solubility: 100% soluble

### HANDLING AND STORAGE

Use appropriate PPE and review the SDS before use. Store drums upright.

### PACKAGING

STAR HIB Plus is available in 55 gal/210 liter drums.

# STAR HIB<sup>®</sup> SF

## High-Performance Salt-Free Shale Inhibitor

## Product Specifications



### DESCRIPTION

STAR HIB<sup>®</sup> SF high-performance shale inhibitor is a proprietary non-ionic amine designed for use in water-based (WBM) drilling fluids. STAR HIB SF is used in formations that contain reactive clays such as smectite and mixed layer illite/smectite. Unlike conventional shale inhibitors, STAR HIB SF does not require KCl or other salts for inhibition. STAR HIB SF does not contribute to salinity or electrical conductivity of the drilling fluid or filtrate

### ADVANTAGE

Used when drilling in environmentally-sensitive areas where KCl cannot be used or when low salinity needs are required

Compatible with all common WBM additives and reservoir compliant

Resistant to contaminants

Temperature stability up to 149°C (300°F)

### APPLICATION

Designed for use in environmentally-sensitive areas

Equally effective in fresh water-, sea water- or brine-based drilling fluid systems

### ENVIRONMENTAL ADVANTAGE

Environmentally compliant for use in all areas

CEFAS and REACH registered

PLONOR listed for North Sea use, HMCS Category P, OCNS Group E

### TREATMENT RECOMMENDATIONS

Effective at concentrations as low as 2-4 wt% for most shales and depletion rates are similar to KCl-glycol fluids

Can be mixed directly into the fluid system through the hopper, straight into the pit or gravity feed dispenser

### PHYSICAL PROPERTIES

Appearance: Clear amber liquid

Specific Gravity: 1.05 g/cm<sup>3</sup> (8.76 lb/gal)

Freezing Point: -16°C (2°F)

Water Solubility: 100% soluble

### HANDLING AND STORAGE

Use appropriate PPE and review the SDS before use. Store drums upright.

### PACKAGING

STAR HIB SF is available in 55 gal/210 liter drums.