STAR SHIELD® 3000
Wellbore Stabilizer

Product Specifications

Impact

DESCRIPTION

STAR SHIELD® 3000 wellbore stabilizer is a preventative wellbore shielding® additive enabling operators to successfully drill in challenging formations. STAR SHIELD 3000 protects the formation by minimizing fluid and pressure invasion into matrix pores and microfractures by creating a 'shield' against the rock-fluid interface. STAR SHIELD technology – the additive advantage, adopted by major operators in unconventional shale plays in North America and deepwater Gulf of Mexico.

ADVANTAGE

Operators drill safely with mud densities greater than the fracture initiation pressure

Eliminates differential sticking in high permeability formations

Does not shear degrade and has a broad particle size distribution

High temperature stability over 204°C (400°F)

APPLICATION

Seals up to 3,000 μm fractures at high differential pressure

Performs in circulating system with API 10-30 mesh screens

Effective in water-, oil- or synthetic-based drilling fluid systems

RESERVOIR PERFORMANCE

Demonstrated to be non-damaging in independent third party testing

ENVIRONMENTAL ADVANTAGE

Environmentally compliant for use in all areas in North America

Passes the North America 96-hr LC50 bioassay mysid shrimp

TREATMENT RECOMMENDATIONS

Effective at concentrations as low as 8-12 lb/bbl; higher concentrations used in sweeps

Designed for use in the circulating fluid system

Concentration can be monitored by Impact's proprietary Sand Bed Tester

PHYSICAL PROPERTIES

Appearance: Light tan powder

Specific gravity: 1.4-1.5 g/cm^3 (11.7-12.5 lb/gal)

Does not contain graphite, asphalt, gilsonite or other black powder based material

HANDLING AND STORAGE

STAR SHIELD® 3000 should be stored in a dry environment. Avoid excessive dust and inhalation. Use appropriate PPE and review the SDS before use.

PACKAGING

STAR SHIELD® 3000 is available in 25-lb, multi-walled bags – 48 sack per pallet and supersacks.