

STAR SHIELD®

Wellbore Shielding® Technology

Product Specifications



DESCRIPTION

The STAR SHIELD® wellbore stabilizer and shielding technology is a preventative additive that enables operators to successfully drill in challenging formations.

This Wellbore Shielding® product protects formations by minimizing fluid and pressure invasion into matrix pores and microfractures, creating a 'shield' at the rock-fluid interface. STAR SHIELD offers a drilling advantage, and has been adopted by major operators in unconventional shale plays.

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 250 µm fractures even at high differential pressure

Performs in circulating system with API 70 mesh screens

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

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 4-12 lb/bbl

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: 1.6-1.7 g/cm³ (13.4-14.2 lb/gal)

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

HANDLING AND STORAGE

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

PACKAGING

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