



Technical Data Sheet

STAR SHIELD

Product Description

STAR SHIELD wellbore stabilizer is a preventative wellbore shielding additive enabling operators to successfully drill in challenging formations. STAR SHIELD 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.

Applications:

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 400F). Seals up to 250 µm fractures at high differential pressure Solid control API mesh screens may need to be adjusted slightly. Equally effective in water-, oil- or synthetic-based drilling fluid systems.

Treatments:

Effective at concentrations as low as 4-8 ppb Designed for use in the circulating fluid system Concentration can be monitored by Impact's proprietary Sand Bed Tester.

KEY BENEFITS

- Eliminates differential sticking in high permeability formations.
- Environmentally acceptable.
- Stable to 400 °F.
- Does not shear degrade and has broad particle size distribution.

Key Properties	
Color	Light tan
Physical Form	Powder
Specific Gravity	1.6 - 1.7
pH	6 - 7
Packaging	25 lb/bag