

STAR SHIELD® 100

PRODUCT SPECIFICATIONS

Description

STAR SHIELD 100® is an advanced wellbore stabilizer engineered to deliver enhanced stability through a finely tuned particle size distribution, optimized for successful drilling in onshore conditions. It excels in maintaining suspension within the drilling fluid system, ensuring consistent protection throughout the process without settling out. STAR SHIELD 100 creates a low-permeability seal that minimizes fluid and pressure invasion, protecting the wellbore in various formations. Compatible with water-, oil-, and synthetic-based drilling fluids, it is a versatile solution for challenging drilling conditions, offering reliable performance to optimize wellbore stability.

Advantage

- *Used in challenging well construction sections to enable operators to drill with drilling fluid 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 fractures up to 125 µm, even under high differential pressures.

Solid control API mesh screens may require slight adjustments to maintain the product within the fluid system.

Effective in water-, oil-, and synthetic-based drilling fluid systems.

ENVIRONMENTAL ADVANTAGE

Environmentally compliant for use across all regions in North America.

Meets the North American 96-hour LC50 bioassay standard for mysid shrimp.

TREATMENT RECOMMENDATIONS

Effective at concentrations as low as 4–10 lb/bbl.

Designed for use in the circulating fluid system.

Concentration can be monitored using Impact's proprietary Sand Bed Tester.

PHYSICAL PROPERTIES

Appearance: Light tan powder

Specific Gravity: 1.6–1.7 g/cm³

Composition: Free of graphite, asphalt, Gilsonite, or other black powder-based materials

HANDLING AND STORAGE

Storage: STAR SHIELD 100 should be stored in a dry environment. Avoid creating excessive dust and inhalation. Use appropriate PPE, and review the SDS before use.

PACKAGING

STAR SHIELD® 100 is available in 25-lb multi-walled bags, with 48 sacks per pallet.

