

STAR SHIELD® 3000

PRODUCT SPECIFICATIONS

Description

STAR SHIELD 3000® Wellbore Stabilizer ensures exceptional wellbore stability in demanding drilling environments. Its proprietary blend of cellulosic fibers, granules, and optimized particle sizes creates a fast, effective seal to minimize fluid and pressure invasion. This low-permeability barrier reduces the risk of damage and halts fracture propagation. STAR SHIELD 3000 is ideal for high-pressure, high-temperature wells and performs consistently across water-, oil-, and synthetic-based fluids, providing a reliable solution to maintain wellbore integrity and boost operational efficiency.

Advantage

- *Designed for challenging well construction, enabling operators to drill with fluid densities greater than the fracture initiation pressure.*
- *Eliminates differential sticking in high-permeability formations.*
- *Shear resistant and has a broad particle size distribution.*
- *High-temperature stability over 204°C (400°F).*

APPLICATION

Seals fractures up to 3000 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 3–8 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: 1.4–1.5 g/cm³

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

HANDLING AND STORAGE

Storage: STAR SHIELD 3000 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® 3000 is available in 25-lb multi-walled bags, with 48 sacks per pallet.

