

TURBO-CHEM[®]

INTERNATIONAL, INC.

The Wellbore Stability Specialists

Turbo-Slide Beads

Mechanically Enhanced Beaded Drilling Lubricant

DESCRIPTION

Turbo-Chem's Turbo-Slide Beads are a multi-phase lubricant that is designed to decrease the coefficient of friction in all water-base drilling fluids. The Turbo-Slide Beads decrease the coefficient of friction that reduces torque, drag and the potential for differential sticking in the wellbore. The lubricant is a suspension of divinyl styrene benzene copolymer drill beads in a lubricant that is hydrocarbon free. The copolymer beads add to the mechanical effect, embedding themselves in the filter cake of the open hole and providing a mechanical "rollerbearing" effect in cased holes, reducing metal on metal friction. Additional value is seen as the liquid lubricant carrier fluid has a unique wettability characteristic that lowers the potential of accretion on the bottom hole assembly (BHA) and drill pipe, allowing more consistent weight to be applied to the bit. Turbo-Slide lubricant is only slightly water soluble under most conditions, but is dispersible in water-base muds

TYPICAL PHYSICAL PROPERTIES:

- Appearance: Golden Yellow
- Specific Gravity: 1.0-1.2

RECOMMENDED TREATMENT:

Normal concentrations of Turbo-Slide Beads are 1.5-3% by volume (5-10 ppb), depending on fluid density and desired reduction in coefficient of friction.

Turbo-Slide Beads can be used in higher concentration when applied in pills where torque and drag are clearly being produced in build sections of highly deviated wells. In those situations, concentrations should range 7-10% by volume (24.5-35 lb./bbl.) When circulating these pills, allow sufficient time for the drill beads to work themselves into the formation around the BHA.

DRILLING FLUID ADDITION COMPATIBILITY:

Effective lubricant for water-base mud systems.

BENEFITS:

- ✓ Temperature stable to 400° F
- ✓ Crush strength to 26,000 PSI.
- ✓ Reduces the tendency for bit and BHA accretion when drilling sticky shales..
- ✓ Water dispersible and blends easily in all water-base mud systems. It can be added to the mud system through the mud hopper or directly to the surface system anywhere good agitation is available. .
- ✓ Increases ROP.
- ✓ Effective in highly deviated wells.

HANDLING: Turbo-Slide Beads are available in 55 gal drums, 275 gal totes.

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