

## LUBRA-GLIDE®

### COPOLYMER BEADS

THE ONLY BEAD MADE EXCLUSIVELY  
FOR THE PETROLEUM INDUSTRY

Lubra-Glide® copolymer beads are manufactured by SUN Specialty Products using a patented rapid rate polymerization process. This process generates a superior strength bead with consistent size and sphericity. Lubra-Glide® copolymer beads provide outstanding stand-off between the well bore, casing, and drill pipe while serving as an exceptional mechanical lubricant reducing torque and drag.

Lubra-Glide® copolymer beads allow the operator to maximize their ROP, weight on bit, and sliding ability to reach TD in the shortest amount of time.

#### Advantages

- ◆ Reduces torque and drag
- ◆ Reduces casing wear
- ◆ Non-Abrasive
- ◆ Recoverable using SUN's patented process
- ◆ Thermally stable up to 500°F
- ◆ Compatible with both oil and water base mud
- ◆ Environmentally safe
- ◆ Resistance to deformation is greater than 25,000 psi hydrostatic
- ◆ Thermally stable down hole to 500°F in a drilling environment
- ◆ Cannot catastrophically fail compared to glass/ceramic composition material

#### Uses

- ◆ Spot prior to running casing or liners
- ◆ Spot prior to logging operations
- ◆ Spot while drilling to transfer more true weight to bit
- ◆ Spit in key seats to reduce torque, drag, and sticking issues
- ◆ Apply Lubra-Glide Copolymer Fine Beads for torque and drag reduction in coil tubing operations or with work strings
- ◆ Use as a mechanical lubricant with OBM or SBM
- ◆ Reduces risk of differential sticking
- ◆ Aids in directional changes or while sliding

#### Packaging

- ◆ 50 lb/sacks (22.6 Kg)
- ◆ 48/50 sacks/pallet
- ◆ 2,000 lb super sacks



#### Physical Properties

- ◆ Form: Spherical Solid Bead
- ◆ Color: Clear
- ◆ Specific Gravity: 1.054g/cm<sup>3</sup>
- ◆ Bulk Density: 41.2 lb/ft<sup>3</sup>
- ◆ Absolute Density: 65.8lbs/ft<sup>3</sup>
- ◆ Sphericity/Roundness: >0.9
- ◆ Acid Solubility: < 1%
- ◆ Turbidity: 26

#### Application

- ◆ Concentrations of 2-8 ppb (5.71-22.87 Kg/M<sup>3</sup>) will be sufficient to control torque and drag
- ◆ Concentrations of 8-12 ppb (2.87-34.31 Kg/m<sup>3</sup>) will be sufficient for spotting in wireline operations and running casing
- ◆ Lubra-Glide Co-Polymer Beads should be added to the mud system through the mud mixing hopper

Enhancing Your Value Horizons

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