TORQUE-LESS® DI-170 glass beads act as tiny ball bearings to reduce torque and drag, can be used in all drilling fluids and are particularly well suited for deviated wellbores. TORQUE-LESS DI-170 beads are stable to extreme physical stress and high temperatures up to 500°F (260°C). TORQUE-LESS beads are much smaller than STICK-LESS® 20 beads and are small enough to pass through coarse to medium mesh shaker screens.

**Applications / Functions**
- Helps provide lubrication in water-based, oil-based, and synthetic-based systems
- Helps reduce torque and drag
- Helps provide lubrication in deviated wellbores
- Helps minimize or prevent differential sticking

**Advantages**
- Chemical inert
- Insoluble in oil and water
- Stable to temperatures in excess of 500°F (260°C)

**Typical Properties**
- Appearance: Colorless beads
- Specific gravity: 2.4 to 2.65
- Micron range: 44 to 88
- Hardness, Moh's scale: 5.5
- Free silica: 0

**Recommended Treatment**
Add 4-8 lb/bbl (11.4-17.1 kg/m³) of TORQUE-LESS DI-170 lubricant

Note: TORQUE-LESS DI-170 lubricant beads may be removed from the mud system by the solids control equipment. Replenish product to maintain the recommended concentration

**Packaging**
TORQUE-LESS DI-170 lubricant beads are packaged in 50-lb (22.7-kg) multi-wall sacks

Because the conditions of use of this product are beyond the seller's control, the product is sold without warranty either express or implied and upon condition that purchaser make its own test to determine the suitability for purchaser's application. Purchaser assumes all risk of use and handling of this product. This product will be replaced if defective in manufacture or packaging or if damaged. Except for such replacement, seller is not liable for any damages caused by this product or its use. The statements and recommendations made herein are believed to be accurate. No guarantee of their accuracy is made, however.