

TURBO-CHEM[®]

INTERNATIONAL, INC.

The Wellbore Stability Specialists

Carbo-Beads

Carbon based graphite spherical beads

DESCRIPTION

Turbo - Chem's CARBO - BEADS are approximately 300 microns to approximately 50 microns. CARBO - BEADS are highly effective lubricity agents and are recommended in applications, which typically call for the use of glass or plastic beads. When added to a drilling mud, the rounded shape of CARBO - BEADS with silicone promotes a "ball bearing" effect, which greatly reduces torque and drag on the drill string. Additionally, the CARBO - BEADS slowly wear down to a slippery, oily film which also enhances lubrication, and leave no sharp, broken pieces which actually increase torque and drag.

TYPICAL PHYSICAL PROPERTIES:

- Appearance: Gray
- Density (lb/ft³): 60
- Melting Point: 500 F
- Crush Resistance: 8-10k

RECOMMENDED TREATMENT:

Torque & Drag: 1-3 ppb while drilling straight hole.
2-6 ppb while drilling horizontal hole.

Sliding Pills: 3-5 ppb by volume can be added directly to the suction pit or sent in sliding pills to reduce torque and increase ROP.

DRILLING FLUID ADDITION COMPATIBILITY:

Carbo-Beads are compatible in water and oil base muds.

BENEFITS:

- ✓ Reduces Torque and coefficient of friction.
- ✓ Minimizes casing wear.
- ✓ Reduces metal to metal friction.
- ✓ Will not adversely affect the mud properties.
- ✓ Increases ROP.
- ✓ Effective in highly deviated wells.

HANDLING: CARBO - BEADS are available in bulk or packaged in 50 lb. sacks.

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