

Deep Black LB™

Graphite Lubricant

Oil & Gas Drilling Fluids / WBM



Deep Black LB™ is part of a family of additives consisting of stabilized dispersion of graphite in an environmentally friendly oily medium (low BTEX).

Deep Black LB™ provides all functions of graphite lubricants.

Deep Black LB™ is a stabilized oily suspension of 40% modified graphite.

TREATMENT

- **Deep Black LB™** is easily dispersed and may be added via a hopper directly into the active system or through pre-mixing.
- Concentration should vary dependent on mud types, density, well path design (anticipated torque and drag) and anticipated formation.
- Torque reduction does not become significant until a concentration of solid graphite 3.0 kg/m³ is exceeded. The optimum solid graphite concentration is in the range of 6.0 - 7.0 kg/m³.
- Concentrations from 15 l/m³ to 20 l/m³ (4-5 gal/m³) are recommended.

BENEFITS AND USE

- **Deep Black LB™** uses the new technology concept which means to treat solid particles with a teflonized derivative.
- **Deep Black LB™** with a slippery surface tension free ability to coat the well bore and drill bit and therefore reduces torque and drag which in turn increases ROP.
- **Deep Black LB™** is non-toxic, non-combustible and contains no heavy metals or environmentally hazardous chemicals.
- **Deep Black LB™** provides for high drilling efficiency and minimization of well costs in vertical, inclined and horizontal wellbores, completion and work-over operations, as well as coiled tubing.
- **Deep Black LB™** does not generate damage formation.

ADDITIONAL ADVANTAGES

- Optimizes lubrication, especially at higher temperatures
- Inhibits hydration of the clay fraction in shale
- Reduces wellbore damage, especially vibration induced formation damage resulting from the stick-slip phenomenon
- Stabilizes rheological properties, leading to greater borehole efficiency
- Stabilizes HTHP filtrate values
- Slicks the entire open-hole, casing and drill-string; reducing frictional forces
- Reduction of torque and drag values
- Reduction or elimination of bit and BHA balling
- Significant reductions in tubular and drilling equipment wear.
- Improved tripping, logging and casing run times
- Provides additional viscosity to WBM

PACKAGING

- 55 Gallon Drum
- 275 Gallon Tote
- Bulk

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