

TURBO-CHEM[®]

INTERNATIONAL, INC.

The Wellbore Stability Specialists

Turbo-Lube CT

Coil Tubing Lubricant

DESCRIPTION

Turbo-Lube CT is a harsh environment water based lubricant specifically developed to solve torque and drag problems in highly tortuous or extended reach wells. Turbo-Lube CT is designed to perform in a wide range of brine waters that have different compositions; including high chlorides, hardness and high pH. Turbo-Lube CT can also prevent bit balling, increase the rate of penetration, and reduce the risk of differential sticking problems. In such differential sticking situations, Turbo-Lube CT can be added as a concentrated pill in drilling fluids and displaced and spotted across the sticking zone to free stuck pipe. Turbo-Lube CT is readily dispersible in any solids-free drill-in fluid or brine. The use of the lubricant does not affect rheology, filtration behavior or any other mud property. In some cases its addition may even improve the API and HPHT filtration properties. Turbo-Lube CT is derived from natural and renewable resources; it is rapidly biodegradable and presents absolutely no danger to marine life or to the operating crew.

TYPICAL PHYSICAL PROPERTIES:

- Appearance: Amber Liquid
- Specific Gravity: 0.96 - 0.98
- Pour Point: 10 Deg F
- Flash Point: >240 Deg F

RECOMMENDED TREATMENT:

0.5 - 3 % by volume depending on the mud density, desired torque and drag reduction, and the conditions in the mud system. After the initial treatment, via continuous injections streams of straight lubricant or by periodic treatments by lubricant sweeps should be made to maintain the desired concentration and effectiveness

HANDLING: Turbo-Lube CT is available in 55 gallon drums and 275 gallon Totes.

DRILLING FLUID ADDITION COMPATIBILITY:

Turbo-Lube CT is designed to perform in a wide range of brine waters that have different compositions; including high chlorides, hardness and high pH.

BENEFITS:

- ✓ Helps directional tools sliding.
- ✓ Prevents differential sticking.
- ✓ Prevents bit balling.
- ✓ Will not adversely affect the mud properties. Compatible with both oil and water based mud.
- ✓ Increases ROP by improving drilling fluid lubricity, reducing torque and drag.
- ✓ Non-damaging to producing zones.

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