

## DOVERLUBE DFA-0938

### *A Rotary-Drilling & Coiled-Tubing Lubricant*

**Doverlube DFA-0938** is the blend of sulfurized fatty compounds and hydrocarbons, the **most popular** lubricant additive manufactured by Dover Chemical Corporation.

It reduces torque/friction by **40-50%** for both conventional **rotary** and **coiled-tubing** (CT) drillings, with a **COF** of 0.150, at 1% usage level in water-based mud or CT formula. In the laboratory, **DFA-0938** shows an effective friction-reduction capability at 150-350F aging:

#### OFITE'S TORQUE REDUCTION AT ELEVATED TEMPERATURES AT 1 % LEVEL IN WATER-BASED MUD

Torques (lb-in)	@150 lb Load	@200 lb Load	@250 lb Load	@300 lb Load
No additive	42	54	65	70+
1%, 150F AHR	15	22	37	43
1%, 250F AHR	11	19	24	28
1%, 350F AHR	10	15	18	23

#### %FR & COF, AHR @ 150 F

	% Friction Reduction	COF
<b>1% DFA-938 in WBM</b>	64%	0.150

The product can be added directly to the mud hopper or to the mud pit.

**Doverlube DFA-0938** may be stored in an original container, drums and totes or bulk storage tanks.

#### TYPICAL PROPERTIES

Property	Typical Result
Appearance	Dark, brown liquid
Viscosity, cSt, 100F	15-32
Specific Gravity, 60F	0.96
Lb/gal , 60F	8.0
Flash point, COC, F	>350
Pour Point, C	2

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