

DOVERLUBE DFA-9415
A Rotary-Drilling & Coiled-Tubing Lubricant

Doverlube DFA-9415 is the blend of sulfurized oleo esters, phosphite and hydrocarbons, in the same tradition as the widely adopted sulfur additives manufactured by Dover Chemical Corporation for the lubricant industry.

DFA-9415 reduces torque/friction by **35-50%** for both conventional **rotary** and **coiled-tubing** (CT) drillings, with a **COF** of 0.200, at 1% usage level in water-based mud or CT formula. In the laboratory, **DFA-9415** shows an effective friction-reduction capability at 150-350F aging:

**OFITE'S TORQUE 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	34	39	46	54
1%, 150F AHR	20	24	27	33
1%, 250F AHR	20	24	25	26
1%, 350F AHR	12	13	13	14

%FR & COF, AHR @ 150 F

	% Friction Reduction	COF
1% DFA-9415 in WBM	41%	0.200

This product can be added directly to the mud hopper or to the mud pit.
Doverlube DFA-9415 is available for purchase in drums, totes or bulk.

TYPICAL PROPERTIES

Property	Typical Result
Appearance	Dark, brown liquid
Viscosity, SUS, 100F	190
Specific Gravity, 77F	1.01
Lb/gal , 77F	8.3
Flash point, COC, F	>350
Pour Point, C	-10

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