

DOVERLUBE DFA-1535

A Rotary-Drilling & Coiled-Tubing Lubricant

Doverlube DFA-1535 is an innovative, patent-pending sulfurized lubricant additive, highly reactive to both metal and silicate surfaces. It reduces torque/friction by more than **50%** for both conventional **rotary** and **coiled-tubing** (CT) drillings, at 1% usage level in water-based mud formula or CT formula, 2.5 times more effective lubricant than a popular commercial counterpart. At 1 wt% in aged WBM, **COF** is measured to be **0.070-0.110** in **150-350 AHR** range. In the laboratory, DFA-1535 shows excellent gel strength at **350F** aging. The product has an outstanding **pour point** of minus-35C.

RHEOLOGY AT ELEVATED TEMPERATURES 1% LEVEL, LABORATORY HOT-ROLLED

	600 rpm	300 rpm	PV	YP	10s gel	10m gel
150F AHR	62	41	21	20	7	11
250 F AHR	61	39	22	17	7	13
350F AHR	18 (*)	12	6	6	7	20

(*) Viscosity is built by cellulosic thickeners which break down at high temperatures.

%FR & COF, AHR @ 250 F, 1% LEVEL

	% Friction Reduction	COF
1% DFA-1535 in WBM	64%	0.100

DFA-1535 can be added directly to the mud hopper or to the mud pit; it 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	75-110
Specific Gravity, 60F	1.02
Lb/gal , 60F	8.5
Flash point, COC, F	360
Pour Point, C	-35

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