DOVER

applied chemistry solutions

BROCHURE

OilField Solutions

Advanced Chemical Solutions for Demanding Oilfield Applications



customerservice@doverchem.com | +1 800 321 8805

Dover Chemical, a leading chemical producer, offers a line of Doverlube® oilfield chemicals, including wellbore and coiled tubing lubricants, corrosion inhibitors, and surfactants.

Dover has been supplying the highest-performance downhole drilling and coiled tubing lubricants for over 30 years. Lubricants for drilling off the Louisiana shelf, the challenging Bakken brine of North Dakota's Williston basin, and lubricants to make easy work in the produced water of the Permian.

Lubricants for Downhole Drilling & Coiled Tubing

Product	CoF	% Torque Red	lbs/gal	Application	Pour Pt °F (°C)	Comments
DOWNHOLE DRILLING						
Doverlube **DFA 0938**	0.15	64	8.0	Downhole Drilling	60 (-16)	LC 50
Doverlube **DFA 0938W**	0.10	76	7.9	Downhole Drilling	14 (-10)	Cool Temp
Doverlube **DFA 0938XW**	0.10	76	7.9	Downhole Drilling	-4 (-20)	Cold Temp
Doverlube **DFA 1010**	0.13	55	8.3	Downhole Drilling	65 (18)	Use w/ DFA 600
COILED TUBING						
Doverlube **DFA 1535**	0.10	65	8.5	CT	-31 (-35)	Fresh Water
Doverlube **DFA 1535EM**	0.09	75	8.5	CT	5 (-15)	Produced Water and Divalent Brine
Doverlube **DFA 1540**	0.09	68	8.9	CT	-35 (<-37)	Fresh Water
Doverlube **DFA 1540EM**	0.08	79	8.9	CT	8 (-18)	Produced Water and Divalent Brine
Product	**CoF**	**% Torque Red**	**lbs/gal**	**Application**	**Pour Pt °F (°C)**	**Comments**
ESTERS						
Doverlube **DFA 1121**	0.15	64	8.0	Downhole Drilling	60 (-16)	WBM & OBM; LC 50
Product	**CoF**	**% Torque Red**	**lbs/gal**	**Application**	**Pour Pt °F (°C)**	**Comments**
SULFUR AND CHLORINE						
Doverlube **DFA 277**	0.11	58	9.2	Off Shore LA Shelf	36 (2)	Pass LC 50 Shrimp Test
Doverlube **DFA 3552**	0.13	70	8.2	CT	-40 (-40)	Produced Water and Divalent Brine
Doverlube **DFA 4052**	0.13	70	8.3	CT	-35 (-37)	Produced Water and Divalent Brine

Dover offers a line of oil-soluble corrosion inhibitors and emulsifiers headed by TOFA Imidazoline and a variety of Fatty Acid Alkanolamides. All can be made fully water-soluble with the addition of acetic acid.

DFA 600, a polyol fatty ester, is your selection for dispersing fat-based lubes, such as DFA 1010, in fresh water systems.

Corrosion Inhibitors, Emulsifiers & Surfactants

Product	Pounds/ gal	Imidazoline %	TBN	Acid Value	pH @1%	Comments
Doverhib **DFA 181TO**	7.8	60	250	10 Max	-	Imidazoline (DETA)
Product	**Pounds/ gal**	**Vis, Sus, @100 °F**	**TBN**	**Acid Value**	**pH @1%**	**Comments**
Doverhib **DFA 1-TO-22**	8.0	1000	40	5	9.6	1:1 TOFA:DEA
Doverhib **DFA 1-O-23**	8.0	950	45	<5	9.5	1:1 Oleic:DIPA
Doverhib **DFA 2-TO-23**	8.0	1050	115	12	9.5	2:1 TOFA:DIPA
Doverhib **DFA 2-C-22**	8.0	1100	165	30	9.8	2:1 CFA:DEA
Product	**Pounds/ gal**	**Vis, Sus, @100 °F**	**TBN**	**Acid Value**	**Pour Pt °F (°C)**	**Comments**

Asphaltene Inhibitor & Pour Point Improvers

Doverlube **DFA 600**	8.7	260	-	8	65 (18)	Polyol Fatty Ester
Product	**Pounds/ gal**	**Vis, Sus, @100 °F**	**TBN**	**Total N2**	**Pour Pt**	**Comments**
Doversperse **DFA H1035S**	8.0	100	62	2.2	-	Asphaltene Inhibitor
Doverflo **DFA 150**	7.3	150	-	-	-40C	Pour Point Improver

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Where Performance Matters

Technical Expertise, Innovative Solutions, and Responsive Service for Demanding Oilfield Applications

Dover is ready to provide timely assistance to answer your questions on Drilling-Fluid and Oilfield Chemical additives

The Dover laboratory is equipped with Ofite Lubricity meters, Vertical Drawbead tester, Cold Finger simulator testing, and a soon-to-be Cold Finger test unit. The Dover mud lab has continued to improve existing product lines and develop new lubricants, corrosion inhibitors, and emulsifiers to keep up with the constant changes in the Gas & Oil market

Dover has teamed with Ravago Chemical, a globally recognized distributor of chemicals in a variety of markets, including the oilfield. Ravago will work with Dover customers to inventory the products you need, offering delivery on short lead times, what you want, and when you want it.

Our Customer Service team is second to none. If they cannot answer your questions, they will point you in the right direction.

