

## DOVERLUBE DFA-600

### *Drilling Mud Dispersant*

**Doverlube DFA-600** is a polyol fatty ester, dispersant, oil-in-water emulsifier, and wetting agent which can be used in both WBM and OBM drilling fluids. For WBM, **Doverlube DFA-600** can help to disperse insoluble hydrophobic component which will float on the AHR mud surface, thus reducing the loss of an additive to cuttings in the field. It can be considered as a degreaser, as it helps to disperse grease or cheese formations upon aging a drilling mud by dispersion of hard-water soaps. For invert OBM, **Doverlube DFA-600** can increase YP and gel points of the fluid without increasing viscosities due to a better dispersing water emulsion droplets. If sulfurized lubricant is incorporated in WBM, the level of used should be minimized to avoid a reduction in EP/lubricity. **Doverlube DFA-600** can be formulated in a drilling fluid additive, or it can be added directly to mud hopper or to the mud pit. Recommended formulation in drilling fluid: 0.5-1 % (1 - 2 ppb or pounds per barrel).

**Doverlube DFA-600** should be stored in an original container or bulk storage tank. If exposed to 0°F for a prolonged time period, **Doverlube DFA-600** will become an opaque solid. To return the material to its original condition, cold drums should be warmed to 80-100°F. Bulk tank storage temperature should be maintained between 75-90°F, using warm water or low pressure steam. Also, material in a heated bulk tank should be re-circulated or mixed to avoid localized overheating. Blending temperature should not exceed 110°F.

#### Typical Properties

Property	Result
Appearance	Liquid-Paste
Color	Brownish
Specific Gravity	1.03
Pounds per Gallon, 77°F	8.6
Pour Point, °F (°C)	65 (18)
Viscosity, cSt @ 40°C	61
Acid Number, mgKOH/g	7

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