



DESCRIPTION

BENEFITS

TREATMENT

FUNCTION

TYPICAL PHYSICAL PROPERTIES

SAFE HANDLING RECOMMENDATIONS

PACKAGING

CFR

CFR is a proprietary blend of fatty acids and petroleum distillates primarily designed to enhance lubricity in all types of water base drilling fluids.

In comparison with other products currently used to improve mud lubricity, **CFR** out performs them all. **CFR** has been tested in comparable concentrations versus all other commercially available products. **CFR** has out-performed these products in all instances.

CFR is added directly to the mud pit or through the mud hopper. Treatments of 1.5 to 2.0 ppb are normally sufficient to reduce the co-efficient of friction significantly. The best results are achieved by not attempting to emulsify the **CFR** product. Reductions of 50% are not uncommon. Additional treatments are required on deep hot holes as the product becomes emulsified.

CFR acts as a surfactant to coat the steel tools and well bore creating a lubricating layer. Addition of cement and/or Caustic Soda decreases the ability of **CFR** to remain in the water phase and it becomes ineffective. Attraction of the **CFR** molecules to drill solids and Barite reduces the interaction of these solids improving flow properties.

Physical Appearance: ...Yellow to dark brown liquid
Specific Gravity:0.93
Bulk Density.....38 lb/ft³
pH in water.....N/A
Low Freeze PointOperates below 32°F
Flash Point.....182°

Utilize normal precautions for employee protection when handling chemical products. Use of appropriate respirator, gloves, goggles, and apron is recommended for employee comfort and protection. See Material Safety Data Sheet [MSDS] for this product prior to use.

CFR is available in 220 to 330 gallon totes or 5 gallon plastic pails.

GEO Drilling Fluids, Inc.

1431 Union Avenue
Bakersfield, CA 93305

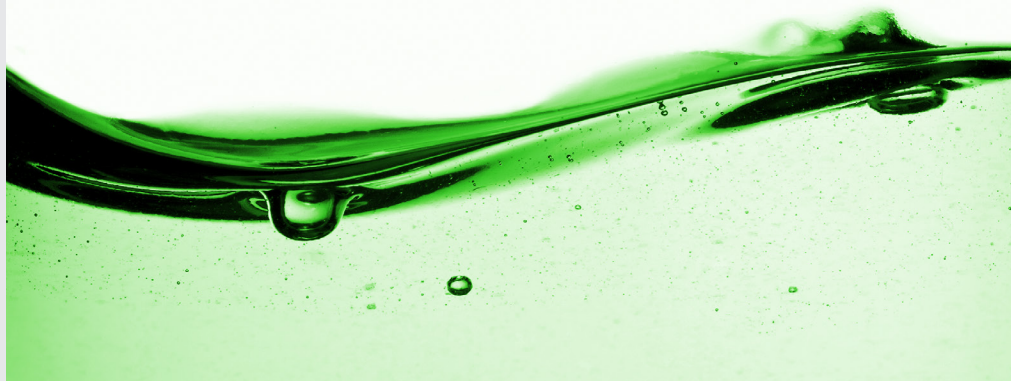
1-800-GETSGEO

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For more info visit:

geodf.com



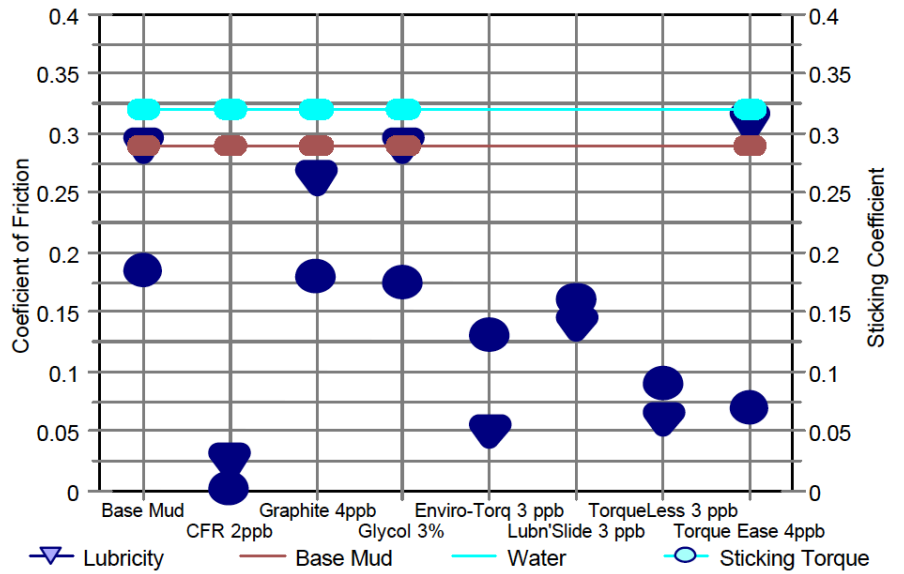


Drilling Fluids, Inc.

LAB TEST RESULTS

CFR

Lubricity Testing



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