



Drilling Fluids, Inc.

**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/ft<sup>3</sup>  
pH in water.....N/A  
Low Freeze Point .....Operates 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**

(661)325-5919

geodf@geodf.com

For more info visit:

**geodf.com**



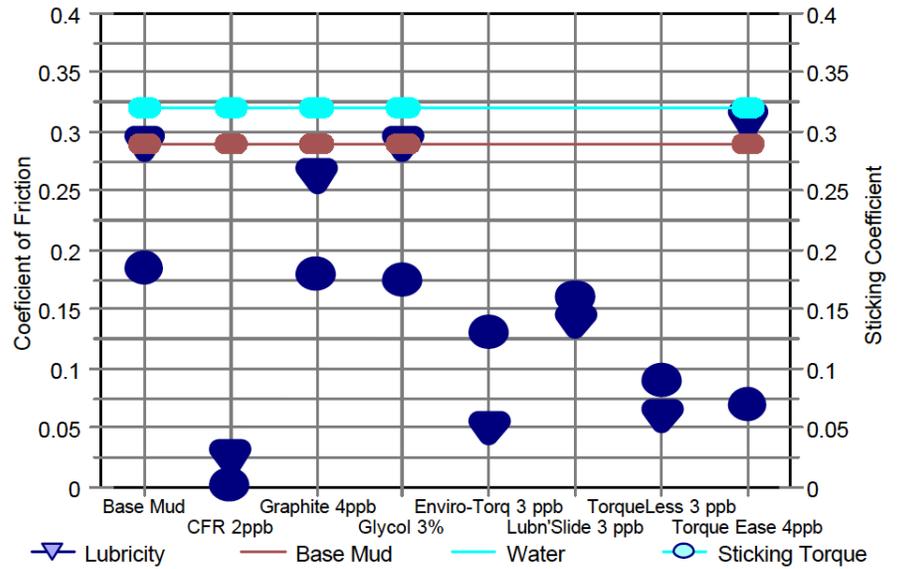


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### LAB TEST RESULTS

## CFR

### Lubricity Testing



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