Sun's C-Mul®

OBM Performance
In a Water Based Mud Package

The C-Mul® package enhances the properties of water-based drilling fluids resulting in improved drilling rates and wellbore stabilization. The package combines key components of Sun's PAO technology creating an effective, high performance emulsion-based drilling fluid.

Manufactured with a polyalphaolefin (PAO) synthetic hydrocarbon base, C-Mul® is formulated to improve rate of penetration (ROP), hole/shale stability, and inhibition. C-Mul® is easily added to water-based fluids with a minimal amount of mixing and agitation.

The product is compatible with both fresh and salt water systems and has no adverse effect on the LC_{50} value of the system. C-Mul® coats the formation and metal parts with a hydrophobic layer of PAO minimizing balling and wear.

C-Mul® with its unique rheological profile has remarkably improved lubricity in several types of drilling fluid systems including deep-water applications. The product reduces torque and drag; effectively improving drilling rates, while not adversely affecting the rheological properties of the drilling fluid system.

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Advantages

- Produces high inhibition in WBM
- Reduces torque and drag
- Decreases friction and wear
- Minimizes bit balling
- Non-toxic
- Non-sheening
- No adverse effect on LC_{50}

Packaging

- 55-gallon drums (208 L)
- Rig storage bulk containers
  275-gallon (1049 L) (6.5 bbl)
  550-gallon (2082 L) (13 bbl)

Physical Properties

- Specific gravity: 0.80
- Appearance:
  Clear amber liquid
- Flash point COC:
  >300°F (>149°C)
- Funnel viscosity:
  70°F - 39 seconds
  120°F - 34 seconds

Application

- Drilling: 4%-10% by volume