

SUN SPOT[®] is a unique blend combining a polyalphaolefin (PAO) synthetic hydrocarbon, special emulsifiers, activators, and initiators. The PAO-base fluid is patented by **Sun Drilling Products Corporation** for use as a drilling fluid additive.

Differential pressure sticking is the most common cause of stuck pipe in drilling operations. Circumstances that lead to differential sticking vary and include:

- ◆ Overbalanced formation pressure
- ◆ Stationary drill string
- ◆ Excessive filter cake

As drilling fluid is lost into the formation, the small pores of the formation face serve as filters; trapping the solids present in the mud system and causing filter cake thickening. SUN SPOT[®] dehydrates and cracks this filter cake, penetrating the area around the pipe with the highly lubricious PAO, allowing the stuck pipe to become free.

SUN SPOT[®] contains no aromatics or other undesirable characteristics found in traditional mineral and diesel oils. Toxicity testing under NPDES guidelines shows that SUN SPOT[®] has no effect on the LC₅₀ of the drilling mud system and does not cause sheening.

Sun's REDI-SPOT[™] Rental Program allows the operators to keep SUN SPOT[®] readily available on the drilling rig, paying a small rental on the tanks until the product is needed. This insures the operator can pump the pill down hole promptly, significantly increasing the probability for success.

Advantages and Benefits

- ◆ Non-toxic
- ◆ No effect on LC₅₀ value of active mud system
- ◆ Non-sheening
- ◆ Base fluid thermal stability >600°F (315°C)
- ◆ No adverse effect on rheological properties
- ◆ Easily weighted up with barite
- ◆ Replacement for diesel and mineral oil based spotting fluids
- ◆ Easily blended on location

Physical Properties

- ◆ Specific Gravity: 0.80
- ◆ Viscosity SUS 100°F 51.3
- ◆ Flash Point COC: >3000°F (149°C)
- ◆ Pour Point -20°F
- ◆ Appearance: Clear amber liquid

Packaging

- ◆ Rig storage bulk containers
275 gallon (6.5 bbl) 550 gallon (13 bbl)



Sun ... The HOLE Solution Company!

1-800-962-6490

www.sundrilling.com