BDF™-921
DRILLING LUBRICANT

Product Description

BDF™-921 lubricant is designed to reduce torque and drag while drilling with water-based mud, concentrated brine and produced water drilling systems. BDF-921 is tolerant of high temperatures, extreme pH values and elevated concentrations of chlorides, calcium and ammonia. BDF-921 is formulated for cold weather storage. In addition to a reduction in drill string torque, BDF-921 can decrease the tendencies for bit-balling, stuck pipe and other causes of low ROP. BDF-921 is commonly used in solids-free fluids, but can be added to drilling fluid systems without detrimental effects on rheology and performance.

Applications/Functions

» Water- and brine-based drilling systems
» Reduction of torque and drag
» ROP enhancer

Advantages

» Tolerant of harsh drilling brines
» Stable in high hardness and ammonia concentrations
» Pour point down to -12°F (-24°C)
» Stable up to 350°F (177°C)

Typical Properties

» Appearance \( \text{Amber liquid} \)
» Specific Gravity 0.87
» Flash point 136°F (58°C)

Recommended Treatment

BDF-921 is effective at concentrations in the range 2-4% v/v. After initial treatment, periodic additions will maintain the desired concentration and performance.

Packaging

BDF-921 lubricant is available in 55 gallon drums and 275 gallon totes.