

Description

KAR-LUBE EB is a highly effective and environmentally acceptable ester-base lubricant used in most water-base drilling fluids.

Typical Properties

Appearance : Amber liquid
Specific Gravity : 0.90 - 0.93
Flash Point : >374 °F (190 °C)
Pour Point : -13 °F (-25 °C)

Features and Benefits

KAR-LUBE EB lowers torque and drag and prevents differential sticking by decreasing the coefficient of friction of most water-base drilling fluids in high angle, horizontal drilling situations.

KAR-LUBE EB is readily biodegradable, non-toxic and environmentally acceptable. This feature of KAR-LUBE EB makes it compatible for off-shore operations.

KAR-LUBE EB reduces the potential for bit and BHA balling and enhances penetration rate.

KAR-LUBE EB has no or minimal effect on rheological and filtration properties of drilling fluids.

KAR-LUBE EB is compatible with common water-base fluid additives.

KAR-LUBE EB is thermally stable at temperatures in excess of 300 °F (149 °C).

Application

KAR-LUBE EB can be used as lubricant for highly deviated or horizontal wells to minimize torque, drag, differential sticking and bit and BHA balling problems in particularly off-shore operation.

Limitations

KAR-LUBE EB loses its effectiveness in high pH environment such as green cement and silicate-base fluids. It is most effective at a pH less than 9.5. A higher concentration of KAR-LUBE EB is required at high pH levels.

KAR-LUBE EB is also sensitive to soluble hardness and becomes less effective at calcium levels greater than 600 mg/l.

Treatment

Normal treatment levels of KAR-LUBE EB range from 1.0 to 3.0% by volume depending on the fluid type and density as well as desired level of lubricity.

Packaging

KAR-LUBE EB is supplied in 55 gal (208 liters) steel drums.