MI SWACO
A Schlumberger Company

Bakken Xpress

Harsh brine drilling fluids lubricant

APPLICATIONS

- Produced water and brine fluids

BENEFITS

- Reduces the coefficient of friction, torque, and drag
- Helps maximize ROP
- Resists storage in cold environments down to –4 degF [–20 degC]

FEATURES

- Environmentally acceptable, nondiesel-based lubricant
- Effectiveness in produced water and brines

The Bakken Xpress* harsh brine drilling fluids lubricant provides outstanding lubricity in produced water and brine fluids and reduces metal-to-metal and metal-to-wellbore friction. Bakken Xpress lubricant significantly decreases torque and drag in high-angle and horizontal wells compared with traditional lubricants.

Addition rates

Recommended initial treatment for Bakken Xpress lubricant is 3% by volume. Product concentration may be adjusted to achieve the desired reduction in coefficient of friction, torque, and drag. Periodic treatments should be carried out to compensate for depletion and ensure the drilling fluid system delivers the same performance throughout the entire application.

The Bakken Xpress lubricant is a nondiesel-based lubricant. It can be readily added through the mixing hopper or directly to the suction pit if proper agitation is provided.

Typical Physical Properties	
Physical appearance	Brown liquid
Specific gravity	0.86 at 68 degF [20 degC]
pH	6.56 (10% 75/25:IPA/H_2O)
Solubility in water	Slightly soluble
Flash point	76.8 degF [24.9 degC]

Limitations

It has a minimal tendency to grease out when exposed to a high-pH, high-hardness environment. It is not intended for offshore drilling applications.

Toxicity and handling

Handle as an industrial chemical, wearing protective equipment and observing the precautions as described in the Material Safety Data Sheet (MSDS). Bioassay information is available upon request.

Packaging and storage

Bakken Xpress lubricant is generally packaged in 55-galUS [208-L] drums. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping, and stacking. Keep containers tightly closed in a dry, cool, and well-ventilated place. Store in original container. Avoid heat, flames, and other sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.