



# BARO-LUBE NS™

## Lubricant

**Description** BARO-LUBE NS™ lubricant is an effective blend of additives which are designed to reduce rotational torque and drag in water-based drilling fluids. BARO-LUBE NS lubricant preferentially adheres to the metal surfaces in contact with water-based drilling fluids, lubricating the bit and drill string to enhance and improve rate of penetration. BARO-LUBE NS lubricant is readily compatible with bentonite based or polymer based fluid systems and can be effectively utilized for enhanced lubrication properties without having a negative effect on the drilling fluid properties.

### Applications/Functions

#### *The use of BARO-LUBE NS lubricant additive promotes:*

- Reduced torque and drag
- Reduced potential for differential sticking
- Enhanced rate of penetration
- Reduced sticking tendencies of clay and shale to bit and bottom hole assembly

### Advantages

- Disperses readily in water based fluids, even with low shear
- Compatible with most water based fluid systems
- Suitable for use in subsurface temperatures up to 300°F (149°C)
- Proven track record in vertical and horizontal drilling disciplines
- Minimal effect on rheological properties

### Typical Properties

- Appearance Clear amber liquid
- Flash Point (°F, °C) 428, 220
- Specific Gravity 0.983

### Recommended Treatment

- Using a Venturi Mixer, or into vortex of a high-speed stirrer, add slowly and uniformly to the entire circulating system.

| Approximate Amounts of BARO-LUBE NS Lubricant Added to Water-Based Drilling Fluids |                     |                       |
|--|---------------------|-----------------------|
| % by volume  | gallons/100 gallons | liters/m <sup>3</sup> |
| 0.5 – 3.0  | 0.5 – 3.0           | 5.0 – 30              |

- The above are generalized concentration ranges of BARO-LUBE NS lubricant to be added to water-based drilling fluids. The ultimate usage concentration will often be based on local geology, application and mixing efficiency. In the event that further information is needed please contact your local Baroid IDP representative for additional assistance.

### Packaging

BARO-LUBE NS lubricant is packaged in 20-liter (5.3-gal) plastic drums or 950-kg (2094-lb) IBC containers.

### Availability

BARO-LUBE NS lubricant is a regionally sourced product within the EU and will not be available through all Baroid Industrial Drilling Products Retailers. To locate the nearest stocking Baroid IDP retailer to you please contact the Customer Service Department in Houston, TX or contact CEBO Holland at the following number:

#### **CEBO Holland, B.V.**

Baroid IDP Master Distributor – Continental Europe & Russia

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The Netherlands

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