

Polylube 8

Polylube 8 is a high-performance lubricity additive engineered for water-based drilling fluids (WBM), designed to significantly reduce torque and drag and improve drilling efficiency across all water-based systems.

Polylube 8 delivers consistent friction reduction and demonstrated temperature stability across a wide range of operating conditions. Its diesel-free formulation makes it particularly well suited for offshore operations where environmental compliance, safety, and fluid performance are critical.

APPLICATION

Polylube 8 is designed for use in water-based drilling fluid systems across a wide range of well types and operating environments. Typical applications include:

- Extended reach wells
- Horizontal and directional drilling
- High-density drilling fluids
- Saltwater and moderate-density NaCl brine mud systems (up to approximately 8.6 ppg NaCl density without compatibility concerns).

BENEFITS

Excellent Lubricity Performance

Demonstrated coefficient of friction reduction of up to 65–70% vs. base mud systems, significantly reducing torque and drag to improve ROP, reduce mechanical wear, and extend tool life.

Proven Brine Results

Demonstrates excellent compatibility in freshwater and sodium chloride brines up to approximately 8.6 ppg across treat rates from 0.5–5 vol%. In higher salinity systems, treat rate optimization may be required to maintain dispersion stability. Compatibility testing should be performed prior to use in brines exceeding 8.8 ppg NaCl density.

Diesel-Free Offshore Advantage

Diesel-free formulation passes EPA/NPDES toxicity testing and is approved for use in the Gulf of America, with a higher flash point (~285°F) than diesel-based additives.

Thermal Stability

Retains full performance after extended high-temperature aging, making it suitable for HPHT wells and deepwater extended reach drilling.

Rheology Neutral

Minimal impact on plastic viscosity, yield point, and gel strengths, maintaining hole cleaning efficiency, ECD control, and hydraulic performance.

Versatile Compatibility

Effective in freshwater, seawater, and moderate-density sodium chloride brine systems. Recommended for water-based muds up to approximately 8.6 ppg NaCl equivalent salinity. Laboratory compatibility testing is recommended for higher-density monovalent brines and saturated salt systems.

Cost Advantage vs. Diesel

Delivers competitive pricing relative to diesel-based lubricants while eliminating the compliance costs, environmental liability, and safety risks associated with hydrocarbon additives in offshore and sensitive drilling environments.

(800) 489-2306
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- COF reduction up to 65–70% vs. base mud
- Diesel-free formulation
- Flash point ~285°F
- Performs in high-temperature applications
- Works in fresh, salt, and moderate brine waters.
- Rheology neutral
- Treat rate: 2–4 vol%
- EPA GOM, OSPAR, OCNS compliant
- Compatible with Polyvis
- Drums, totes, and bulk available
- Low aquatic toxicity
- Zero sheen potential

SAFETY DATA

Property	Test Method / Basis	Typical Value	Unit
Flash Point	ASTM D93	~285	°F
pH	—	~4.3	—
Moisture	—	< 0.2	wt%
Diesel Content	—	None	—

PHYSICAL PROPERTIES

Property	Test Method / Basis	Typical Value	Unit
Freshwater Compatibility	Visual Compatibility Screening	Pass	—
NaCl Brine Compatibility (≤ 8.6 ppg)	—	Pass	—
NaCl Brine Compatibility (8.8 ppg)	Visual Compatibility Screening	Pass to 2 vol%; dispersion above 3 vol%	—
NaCl Brine Compatibility (9.0 ppg)	Visual Compatibility Screening	Pass to 1 vol%; precipitation above 2 vol%	—
Recommended Brine Density Range	—	Freshwater to 8.6 ppg NaCl	—



HANDLING & STORAGE

Store in a cool, dry, well-ventilated area away from strong oxidizing agents. Keep containers tightly closed when not in use. Product remains stable for 12 months from date of manufacture when stored under recommended conditions.



SAFETY

Avoid contact with eyes, skin, and lungs. Use appropriate personal protective equipment including gloves, safety glasses, and respiratory protection where applicable.

Consult the current Safety Data Sheet (SDS) for complete hazard classifications, precautionary statements, exposure limits, first aid measures, and handling requirements prior to use.

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