

# HYDREX™

EXTREME PRESSURE LUBRICANT DESIGNED FOR FRESHWATER AND LOW-TO-MID SATURATED SODIUM CHLORIDE BRINES

## BENEFITS

- Reduces metal-to-metal and metal-to-formation torque and drag without affecting drilling fluid properties.
- Minimizes friction wear, extending drill pipe life.
- Engineered for water and brine-based systems to perform at low concentrations.

## APPLICATIONS

- Designed for freshwater or cut-brine systems, including extended-reach and extreme pressure wells. Elevated risk of incompatibility in saturated brine environments.
- Coiled tubing and wire line operations 1 - 2% v/v in a continuous circulating system, 2 - 3% v/v in concentrated sweeps (typical), and 4% v/v for casing running pills.

## PROPERTIES

- Appearance: Dark brown liquid
- Specific Gravity: 0.93 - 0.96
- Flash Point: 230°F
- Solubility: Insoluble in water

## TREATMENT RECOMMENDATIONS

HYDREX is a liquid additive added to a full circulating system or in concentrated pills. A standard circulating system recommended treatment is 1.5% v/v, with most applications using between 1 - 2% v/v.

Concentrated sweeps between 2 - 3% are effective across difficult sections of excessive torque and drag, such as the build section during trips or while sliding in highly deviated boreholes. For casing running pills, spot a 4% v/v treatment.

To minimize risk of foaming, maintain hardness below 400 mg/l and maintain pH below 10.0. Elevated risk of incompatibility is observed in saturated brine (above 150,000 mg/l chlorides). If required, use a non-alcohol based defoamer to combat foaming. As with any fluid additive introduction, pilot testing is recommended for new applications.

## PACKAGING AND HANDLING

HYDREX is available in 275 gallon totes. Handle HYDREX as an industrial chemical, wearing protective equipment and observing precautions as described in the Safety Data Sheet (SDS).





**AES DRILLING FLUIDS**

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