

COR ALL 50

Corrosion Inhibitor

Product Description

COR ALL 50 is an all-purpose, water-soluble organophosphorous compound. It is a passivating type of inhibitor which forms a protective film on metal surfaces to guard against corrosion attack.

Typical Physical Properties

Physical appearance	Clear Amber liquid
Specific gravity	1.38 - 1.41
Solubility	Soluble in water
Flash Point	>200°F (>93°C)

Application

COR ALL 50 inhibitor is effective at relatively low concentrations in all water-base muds. It has proven to be particularly useful in reducing oxygen corrosion in aerated muds, low-solids, non-dispersed, polymer muds, and potassium muds.

The product should be evenly dispersed throughout the circulating mud system and can be added either through the chemical barrel or directly to the mud pits wherever good agitation occurs. The corrosion rates should be monitored at all times with corrosion coupons and treatments should be adjusted according to their analysis.

Advantages

- Highly effective against oxygen corrosion, the most common form of corrosion in drilling fluids
- Does not usually require an oxygen scavenger
- Potassium-base product that is compatible with potassium-base systems
- Minimum effect on fluid rheology
- Effective in waters from fresh to saturated salt water
- Effective in aerated fluids such as those used in air-drilling operations
- Effective to temperatures in excess of 350°F (177°C)

Limitations

- Less effective when the soluble calcium concentration exceeds 200 mg/L Ca++ slightly higher concentrations are required in high-calcium fluids
- Should not be used in packer fluids or other situations where the fluid will not be circulated nor on racked pipe

Recommended Treatment

The recommended initial treatment of COR ALL 50 inhibitor is 2 to 4 gal/100 bbl (0.5 to 1.0 L/m³) depending on anticipated conditions, other chemicals used in the system, and the corrosive environment, i.e., salinity, pH, temperature, oxygen content and acid gases.

If the corrosion rate is unacceptably high, the concentration should be increased to at least 7 gal/100 bbl (1.7 L/m³). For aerated systems, an initial treatment of 12 gal/100 bbl (2.9 L/m³) is recommended.

Important Note: These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and method of use of our product are beyond our control. We recommend that the prospective user determine the suitability of our material and suggestions before adopting them on a commercial scale.

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Toxicity and Handling

Bioassay information is available upon request.

Handle as an industrial chemical, wearing protective equipment and observing the precautions described in the Material Safety Data Sheet (MSDS).

Packaging and Storage

COR ALL 50 inhibitor is packaged in 55-gal (208-L) drums.

Store in a dry, well-ventilated area. Keep container closed. Keep away from heat, sparks and flames. Store away from incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking.

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