

REDUCTION™

OXYGEN SCAVENGER



NEWPARK
DRILLING FLUIDS

www.newparkdf.com

PRODUCT DESCRIPTION

Reduction™ oxygen scavenger removes dissolved oxygen from divalent brine fluids, such as Newpark's proprietary Fusion™ drilling fluid system. The Fusion system is a uniquely formulated brine system that uses advanced fluid engineering to increase bit life, improve lubricity and manage corrosion.

BENEFITS

- Removes oxygen from brine fluids with high divalent cation concentrations
- Does not form sulfate scales associated with sulphite-based oxygen scavengers
- Inhibits formation of oxygen corrosion cells on metal surfaces

APPLICATION

Reduction oxygen scavenger provides effective corrosion inhibition for metal surfaces due to oxygen contamination, even in the presence of divalent brines. Traditional sulfite-based oxygen scavengers are not effective when divalent brine concentration exceeds 4,000ppm. Reduction oxygen scavenger effectively removes oxygen from high-density calcium chloride brines without causing unwanted sulphate scales which can lead to loss of activity and under deposit corrosion. Reduction oxygen scavenger works synergistically with Prevention™ corrosion inhibitor and Reaction™ scale inhibitor in protecting metal surfaces from corrosion when drilling with divalent brines. Suitable for all brine systems, the Reduction oxygen scavenger is stable to 150°C, effective at low concentrations and environmentally friendly.

TREATMENT RECOMMENDATIONS

Reduction oxygen scavenger is added to the system at a concentration of 0.5-12 kg/m³, depending on oxygen levels. The product is depleted from the system as it removes oxygen from the drilling fluids. In addition, drilling fluid is constantly aerated across turbulent surfaces in solids control and mixing operations. A maximum pH of 10.5 is recommended for optimal effectiveness.

TYPICAL PHYSICAL PROPERTIES

Appearance.....White to pale yellow powder
Flash Point..... 100°C
Solubility Water soluble

HANDLING AND STORAGE

Avoid contact with eyes, skin and lungs. Store in a cool, dry, well-ventilated area. Use appropriate hygiene, clothing and personal protective equipment suitable for work being done. Review the SDS thoroughly before using this product.

PACKAGING

Reduction oxygen scavenger is available in 25-kilogram multi-walled bags.