PetroShield CRO2195 lubricating corrosion inhibitor

Corrosion control for sour systems with low oxygen levels combined with a wear reduction additive

Applications

- Conventional and unconventional wells
- Wells on reciprocal rod lift

Features and Benefits

- Lubricity additives
  - Reduces rod wear
  - Reduces mechanical abrasion
  - Improves well run time
- Multipurpose product
  - Inhibits corrosion in systems containing H2S, CO2 and up to 2 ppm of O_2
- Exhibits detergent properties.
  - Helps keep systems clean
  - Helps mitigate under-deposit corrosion
- Excellent cold weather handling properties
  - Requires minimal storage and pumping
- Residuals easily monitored
  - Minimizes costs through optimized treatment rates

The **PetroShield™ CRO2195 lubricating corrosion inhibitor (LCI)** from Baker Hughes, is an organic, film-forming corrosion inhibitor in the form of an oil-soluble liquid with good water dispersibility with advanced lubricity additives to help reduce rod wear. It is specifically designed to inhibit corrosion in fluids that contain H2S with or without CO2 and up to 2 ppm of oxygen. This mixed inhibitor contains components with the complimentary functions of corrosion inhibitor and detergent action as well as the lubricity additives mentioned.

PetroShield LCI is effective in sour systems that show diminished corrosion control with conventional corrosion inhibitors because small amounts of oxygen are contacting production fluids. Oxygen contamination is frequently the result of reduced pressure in the well annulus which allows air to migrate down into the produced fluids. Corrosion damage usually shows up first at thread ends and other stagnant areas near the bottom of the well. Pumps and lower rods are usually the victim and corrosion is often accompanied by abnormally high amounts of solids deposition. Oxygen levels in produced fluid at the wellhead may be immeasurably small since corrosion consumes oxygen as it comes up the production tubing.

Application

PetroShield LCI has been shown to be stable at 310°F (155°C). This chemical can be applied by batch, circulate and park, and continuous treatments.

Your Baker Hughes representative can evaluate your system's performance, specify the appropriate treatment and equipment, and design a comprehensive application program.

PetroShield lubricating corrosion inhibitor (LCI)	
Materials Compatibility - Suitable	
Metals:	Admiralty Brass, Aluminum, Copper, Mild Steel, SS304 SS316
Plastics:	Polyethylene HD, Teflon
Elastomers:	Buna N, Neoprene, CSM, EPDM
Materials Compatibility – Not Suitable	
Metals:	
Plastics:	Polypropylene HD, Polyethylene, linear, PVC
Elastomers:	Buna N, Neoprene, CSM, EPDM

PetroShield lubricating corrosion inhibitor (LCI)	
Physical Properties	
Density	7.7 lbs/gallon
pH	6.67
Flash Point (SFCC)	34oC (93.2oF)
Viscosity (Dynamic 15.6oC)	30.5 cP