

PetroShield CRO2195 lubricating corrosion inhibitor (LCI)

Reduce rod wear and tubing failures to extend the life of your assets

The PetroShield™ lubricating corrosion inhibitor (LCI) provides the industry's first combination corrosion inhibitor and lubricant to prevent premature rod pump failure by reducing friction for improved operational efficiency and run life.

Directional and horizontal drilling have increased well complexity, placing greater stress on downhole equipment. While these advances have unlocked new production potential, they also place greater mechanical stress on downhole equipment—particularly sucker rod strings and production tubing. These components are now more susceptible to friction-related

wear and corrosion, leading to increased failure rates and higher maintenance costs in rod lift systems.

PetroShield LCI is the first corrosion inhibitor in the industry to include a lubricant to reduce friction and wear scarring and extend run life. With a combination of corrosion inhibitor and lubricant in a single dose, PetroShield LCI significantly minimizes wear scarring, increasing time between workovers. This can also eliminate the need to pull and replace rod pumps, eliminating downtime, preventing hazardous situations, and saving valuable CAPEX.

Applications

- Wells on reciprocating rod lift
- Batch treatments

Benefits

- Minimizes downtime and maintenance costs for reduced OPEX and CAPEX
- Increases equipment run life by reducing rod lift friction and wear
- Enhances rod lift performance ensuring optimal functionality and reliability even under challenging conditions



PetroShield lubricating corrosion inhibitor (LCI)

Six month field trials

Well	Historical maximum time to failure (prior to LCI treatment)	Failure: free days (post LCI treatment)	Improvement of run life
Well 1	92	220+	2.5x
Well 2	136	210+	1.5x
Well 3	80	210+	2.5x
Well 4	110	210+	2.0x

Reported at time of publication (June 2025).

PetroShield lubricating corrosion inhibitor (LCI)

Physical properties

Density	7.7 lbs/gallon
pH	6.67
Flash point (SFCC)	93.2°F (34°C)
Viscosity (dynamic 60.0°F/15.6°C)	30.5 cP

Materials compatibility

Suitable

- Metals: Admiralty brass, aluminum, copper, mild steel, SS304, SS316
- Plastics: Polyethylene HD, Teflon®
- Elastomers: Buna N, Neoprene, CSM, EPDM

Not suitable

- Plastics: Polypropylene HD, Polyethylene, linear, PVC
- Elastomers: Buna N, Neoprene, CSM, EPDM

