



SuperCorr[®]



A Corrosion Control Breakthrough

Superior Protection

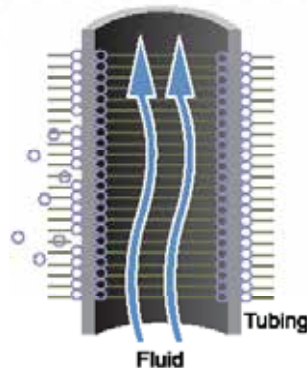
- Provides superior corrosion control by forming a tenacious net-like microfilm barrier.
- Prolonged film persistency that becomes part of the metals matrix.
- Protects against atmospheric corrosion, oxygen, carbon dioxide (CO₂), Hydrogen Sulfide Gas (H₂S) and organic acids.
- Protection of the tubulars and rods provide additional profits by reducing down time and high replacement and repair costs.
- Breaks down into erosion by-products having no deleterious effect on the formation.
- More efficient than conventional inhibitors.

Super Performance

Traditional Corrosion Inhibitors

Polar amines film attraction to well tubing is affected by fines and high-velocity fluids.

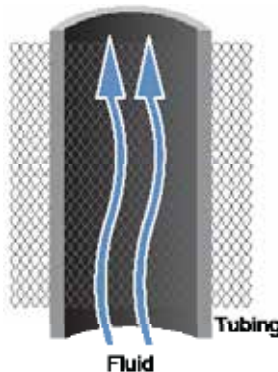
They also lose their charge and fall away.



SuperCorr Corrosion Inhibitor

SuperCorr's micro-film binds with the tubing, becoming part of its matrix.

It is resistant to chemicals, fines and fluid velocities.



The SuperCorr Solution

SuperCorr is a unique binary corrosion inhibitor designed for use in producing oil and gas wells, surface vessels and pipelines. Formulated to work in both sweet or sour environments; SuperCorr's micro-filming characteristics last up to four times as long as traditional amine inhibitors, resulting in reduced treatments and well down time providing significant cost savings. Unlike conventional corrosion inhibitors, SuperCorr's patented formulated micro-film adheres to the surface being coated and will subsequently and spontaneously cure underwater. It penetrates into microscopic cracks and crevices, displacing water from them. Within minutes, any water "sweats out" through the coating, which binds tenaciously to the surfaces being treated without an intervening water layer.



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The Super Binary Corrosion Inhibitor

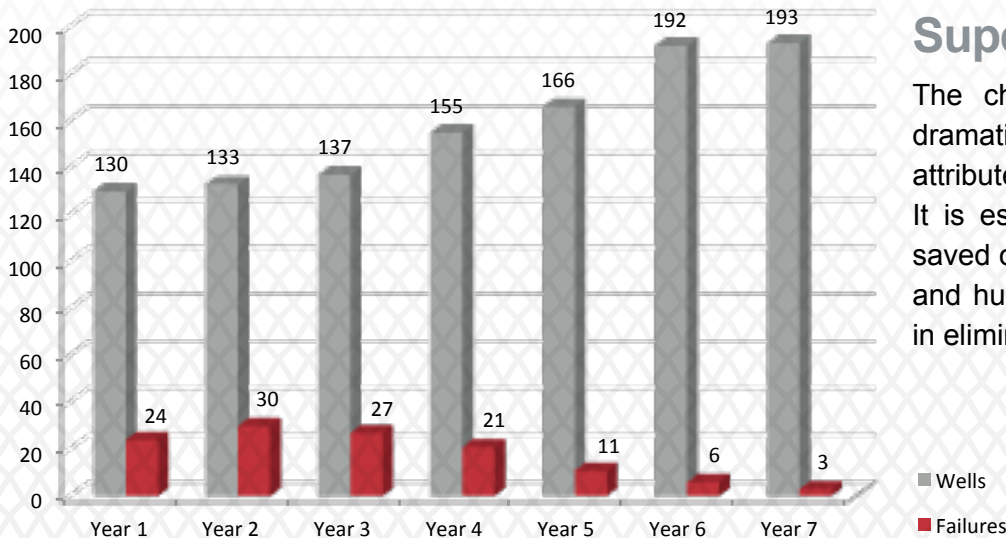
Proven Results

Williston Basin Testing. Twenty wells previously treated with conventional corrosion chemicals and produced from the Red River B zone were chosen for an initial SuperCorr field testing. The wells were horizontal wells with depths ranging from 2,400 to 6,000 meters. Total fluid production in the field averages about 46,000 bbls oil per day and 28,000 bbls water per day.

Iron count monitoring was used to track corrosion control for testing results. The superior performance of the SuperCorr treatment resulted in the operator switching the majority of the producing wells (193) to the SuperCorr program over the next 4 years.



Coupons were lowered into a field brine solution, air was introduced and the coupons were left in this environment for seven days. Results show that the coupon treated with SuperCorr showed no attack, while the coupon treated with conventional inhibitor showed dramatic loss of metal.



SuperCorr treatment began in the first quarter of the third year.

Superior Performance

The chart to the left indicates the dramatic rod failure decrease attributed to the SuperCorr treatment. It is estimated that the operator has saved over \$1,000,000 in pulling costs and hundreds of thousands of dollars in eliminated down production costs.