



String Saver Corrosion Inhibitor



String Saver is a specially blended, low toxicity formulation recognized as a green corrosion inhibitor used in the most environmentally sensitive areas.

String Saver is:

- Soluble or dispersible in both aqueous and non-aqueous systems
- Stable and effective in brine water systems and particularly suited for highly aerated fluid systems such as those utilized in under-balanced drilling operations – air mist/stable foam drilling operations

How does it work?

Water injected downhole is adsorbed onto metal surfaces. When oxygen is present, a localized electrochemical cell is created between the metal (anode) and its oxide layer (cathode) which results in corrosion. String Saver contains a polar group - which strongly adheres to the metal surface - and a long alkyl chain that will repel water and oxygen. The actives in String Saver form a protective film on the surface of the metal. The specially designed composition produces optimal molecule packing, resulting in an even distribution of the inhibitor on the surface of the metal (surface film). The result is stable, consistent protection across the entire treated metal surface and the highly persistent films are ideal for high-shear applications.

String Saver has proven to be a highly effective corrosion inhibitor in the reduction of pitting corrosion attack caused by dissolved oxygen. String Saver also keeps calcium from precipitating by forming soluble salts, so the components are well-suited for applications where calcium scale deposition is a potential problem.