

FC-181 CORROSION INHIBITOR

Alkyl pyridine quaternary amine inhibitor

Description FC-181 is a water soluble corrosion inhibitor intended for use in protecting casing, tubing, wellhead and production equipment or pipelines. FC-181 can be used in oil or gas producing wells and as a three-phase inhibitor.

Properties

Physical State:	Dark Brown Liquid	Specific Gravity:	0.9155
Solubility in Water:	Complete	Weight:	7.63 lb/gal
pH:	6.21	Freeze Point:	<-20°F
Flash Point:	70°F (21°C)		

Application FC-181 is normally injected in a diluted form in producing wells using metering equipment. Typical dosages range from 100 to 300 ppm inhibitor based on total produced fluid volume. For pipelines, FC-181 may be used between pigs or continuously injected through an atomizing nozzle if three-phase protection is desired. Typical injection rate is 1 to 2 pints per million cubic feet of gas. Usage rate may vary depending on the severity of the corrosion. Listed below are laboratory test data related to the performance of FC-181 in typical production fluid environments.

Compatibility FC-181 has no known incompatibilities.

Test Method

Brine: 100g NaCl/Liter Distilled H ₂ O	Volume: 190 ml
Acid Gas: CO ₂ Saturated & 100 ppm H ₂ S	Temperature: 150°F
Test Period: 24 hours	RPM: 26
Coupons: ¼"x6" Mild Steel w/Sandblast Finish	

Corrosion Inhibition			
Concentration, ppm	Weight Loss, mg	Protection %	Inhibitor
0	63.1	0	Blank
0	64.2	0	Blank
0	64.5	0	Blank
40	4.8	93	FC-181
40	4.9	93	FC-181
40	5	93	FC-181
80	4.5	93	FC-181
80	4.5	93	FC-181
80	4.8	93	FC-181
120	4	94	FC-181
120	3.9	94	FC-181
120	4.1	94	FC-181

Handling FC-181 is a flammable liquid. Keep away from heat, sparks, open flames and any ignition source. Avoid contact with eyes, skin and/or clothing. Use necessary personal protection. Refer to the Material Safety Data Sheet (MSDS) for handling and hazard data.

Packaging FC-181 is available in 55 gallon poly drums and 330 gallon totes.

