

StimMax Corrosion Inhibitor TEST

The corrosion test was performed as follows:

One gram sample of inhibitor in the small dish and panel made from the steel SAE 1010 were placed into 1 gallon jar. Jar was sealed and conditioned for 20 hours. After that, the hydrogen sulfide was generated in this jar by combining a small beaker 0.02g of iron sulfide (FeS) and 0.5ml of 1N hydrochloric acid (HCl). The jar was placed in an oven set for cycling temperature 8 hours – ambient and 16 hours 50o C. The panels were inspected for the presence of corrosion after one cycle in the oven.



Control



StimMax COR 1



Control



StimMax COR 2

StimMax Corrosion Inhibitor Test Results

SAMPLE	Plug #1	Plug #2	Plug #3
StimMax COR - 1	Grade 3	Grade 3	Grade 3
StimMax COR - 2	Grade 3	Grade 3	Grade 2
Control	Grade 0	N.A.	N.A.

Results of static corrosion test in sour conditions:

SAMPLE	Start Weight	End Weight	Difference	Corrosion Protection
Control	22.0295g	21.9362g	-93.3mg	-
50ppm StimMax COR - 1	22.0289g	22.0157g	-13.2mg	85.8
100ppm StimMax COR - 1	21.6107g	21.6040g	-6.7mg	92.8
50ppm StimMax COR - 2	22.1844g	22.1779g	-6.5 mg	93.0
100ppm StimMax COR - 2	21.3372g	21.3344g	-2.8mg	96.8

Test results in the hydrogen sulfide containing vapors:

SAMPLE	Results
StimMax COR - 1	No Corrosion
StimMax COR - 2	No Corrosion
Control	Corrosion