

INTRODUCTION

MAYCO STIM-40 is a sulfide complexer used in treating sour wells which produce hydrogen sulfide gas. MAYCO STIM-40 will control sulfide cracking of tubulars as well as minimize the precipitation of free sulfur.

TECHNICAL FEATURES

1. MAYCO STIM-40 can be added on-the-fly on the suction side of the high pressure pumps or batch mixed in the acid.
2. MAYCO STIM-40 is dispersible in water and acid.
3. MAYCO STIM-40 is not corrosive to metal.
4. MAYCO STIM-40 will complex sulfur and limit its tendency to precipitate as the acid spends.
5. MAYCO STIM-40 can be used in HCl:HF blends.

SUGGESTED APPLICATIONS

MAYCO STIM-40 is a chemical designed to control sulfide cracking of tubulars and precipitation of free sulfur when acidizing sour wells (any well which produces H₂S gas).

When acidizing sour wells with no iron sulfide scales, MAYCO STIM-40 is recommended for use with appropriate corrosion inhibitors to minimize stress cracking of tubulars. To control stress cracking of tubulars, use 5 to 10 GPTG MAYCO STIM-40 in the acid. All acids must contain an acid corrosion inhibitor. This can be especially critical when treating wells with N, P and chrome steel tubulars.

MAYCO STIM-40 is used in combination with citric or nitrilotriacetic (NTA) and acetic acid to control iron and sulfur precipitation from hydrochloric acid as it spends on the formation. This product blend will be referred to as Sour Well Acid (SWA). SWA utilizes citric or NTA and acetic acid to control the precipitation of iron hydroxides. MAYCO STIM-40 is added to the blend to control the precipitation of free sulfur. The recommended concentration range of these chemicals to prepare SWA is as follows:

HCl	7 ½% to 28%
NTA or	50 to 400 PPTG
Citric	50 to 150 PPTG
Acetic Acid	10 GPTG
MAYCO STIM-40	10 TO 20 GPTG

Higher concentrations of NTA and MAYCO STIM-40 are required for wells with severe iron sulfide scaling problems.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear colorless liquid
Odor	Faint characteristic odor
Specific Gravity	1.27 g/cm ³
Boiling Point °F (°C)	230 (110)
Melting Point °F (°C)	5 (-15)
Ionic Charge	Nonionic
pH	1.0 – 3.0
Vapor Pressure	Similar to water
Solubility in Water	Complete

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