



MAYCO STIM-350

INTRODUCTION

MAYCO STIM-350 is a chemical newly designed for use in matrix acidizing. As a mutual solvent with strong water-wetting and water solubilizing capabilities, it is soluble in oil and water-based fluids.

TECHNICAL FEATURES

1. MAYCO STIM-350 eliminates reservoir emulsion blocks by acting on the fines which stabilize emulsions.
2. MAYCO STIM-350 resolves water blocking problems and improves the relative permeability to oil and gas by solubilizing and removing water.
3. MAYCO STIM-350 cleans and water-wets the formation, allowing the acid to be more effective in contacting acid soluble materials.
4. MAYCO STIM-350 improves the relative permeability to oil by water-wetting the reservoir.
5. MAYCO STIM-350 minimizes adsorption of cationic surfactants on silicates and improves the overall additive solubility of a fluid system.

SUGGESTED APPLICATIONS

The inability of many wells completed in a sandstone formation to meet anticipated productivity is often attributed to blockage of flow channels in the vicinity of the wellbore. This damage may develop during drilling or workover operations and usually consists of:

1. Formation damage through particle blocking.
2. Oil-water emulsion blocks in the pore spaces.
3. Reduction of relative permeability to gas and oil from water blocks.
4. Reduction of relative permeability to oil due to sandstone becoming oil wet.

MAYCO STIM-350 water-wets the formation and the fines during an acidizing treatment, thereby eliminating emulsion block problems while improving the relative permeability to oil. It also lowers the water saturation near the wellbore.

Its use facilitates the restoration of oil and gas productivity from damaged reservoirs to original or optimum producing levels, and also aids in improving injectivity in water injection wells.

For oil well stimulation, an afterflush of MAYCO STIM-350 can be mixed with 5% by volume of diesel oil or with acid or ammonium chloride. Volume of the afterflush should be equivalent to the acid which proceeds it. For treating gas wells, avoid the use of a diesel oil afterflush. MAYCO STIM-350 is added at 5% by volume to the acid or ammonium chloride overflush.

The required amount of MAYCO STIM-350 should be added to the base solvent (diesel, oil, acid or ammonium chloride) in the acid tank and dispersed by circulating tank.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless liquid
Odor	Strong
Boiling Point (760 mm Hg)	179°F
Specific Gravity	0.9
Density (1 lb/gal @ 60°F)	7.5
Solubility in Water	Soluble
Specific Gravity of Vapor	2.6 (Air = 1)
Volatile Content	100%

COMPATIBILITIES

When used in acidizing, more inhibitor will be required.

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