

Mayco Stim-25™

Mayco Stim-25 is a chemical with strong water-wetting and water solubilizing capabilities for use in matrix acidizing. It is soluble in oil and water-based fluids. **Mayco Stim-25** 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.

APPLICATION

For oil well stimulation, an after flush of **Mayco Stim-25** can be mixed with 5% by volume of diesel oil or with acid or ammonium chloride. Volume of the after flush should be equivalent to the acid that precedes it. For treating gas wells, avoid the use of diesel oil after flush. **Mayco Stim-25** is added at 5% by volume to the acid or ammonium chloride over flush. When used in acidizing, more inhibitor will be required. The required amount of **Mayco Stim-25** should be added to the base solvent (diesel, oil, acid or ammonium chloride) in the acid tank and dispersed by circulating tank.

TECHNICAL FEATURES AND ADVANTAGES

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 work over 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 or sandstone becoming oil wet.

PERFORMANCE

Mayco Stim-25 facilitates the restoration of oil and gas productivity from damaged reservoirs to original or optimum producing levels, and aids in improving injectivity in water injection wells.

- Eliminates reservoir emulsion blocks by acting on the fines that stabilize emulsions.
- Resolves water blocking problems and improves the relative permeability to oil and gas by solubilizing and removing water.
- Cleans and water-wets the formation, allowing the acid to be more effective in contacting acid soluble material
- Improves the relative permeability to oil by water-wetting the reservoir.
- Minimizes adsorption of cationic surfactants on silicates and improves the overall additive solubility of a fluid system.

TYPICAL 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%

PACKAGING

(NEED)

SAFETY AND HANDLING

Avoid skin and eye contact, inhalation or ingestion. If exposed, wash skin with soap and water, flush eyes with water and seek medical assistance. If ingested, seek medical assistance. Remove contaminated clothing and wash before reusing. Have adequate ventilation or use proper respirator. Wear protective face shield. Dispose of according to applicable regulations. Consult MSDS prior to use.

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