

## INTRODUCTION

MAYCO STIM-239 is a concentrated permanent clay stabilizer used in water-sensitive formations which contain swelling or sloughing-type clays such as smectite, some mixed layer clays and certain types of illite to prevent the swelling and/or sloughing of such clay materials in the rock matrix.

## TECHNICAL FEATURES

1. MAYCO STIM-239 stabilizes any water, brine or acid-based stimulation treatment requiring control of migration and swelling of clay minerals in any workover or stimulation treatment. It also stabilizes potentially mobile siliceous fines such as kaolinite, feldspars and fine quartz.
2. MAYCO STIM-239 can be added "on-the-fly" or batch mixed.
3. MAYCO STIM-239 has been tested to temperatures as high as 300°F (149°F).
4. MAYCO STIM-239 is not readily removed by subsequent treatments using brines or acid. MAYCO STIM-239 leaves sand and silicates water-wet.
5. MAYCO STIM-239 requires no shut-in period.
6. MAYCO STIM-239 is compatible with mineral acids, brines and foamers for foam frac applications. It is also effective in crosslinked gel systems and is compatible with nonionic surfactants.

## SUGGESTED APPLICATIONS

MAYCO STIM-239 provides long-lasting protections of water-sensitive formation clays during workover or stimulation treatments.

MAYCO STIM-239 facilitates higher hydrocarbon production potential by maintaining water-wet conditions in the formation.

MAYCO STIM-239 is effective in all types of wells and formations.

## PHYSICAL & CHEMICAL PROPERTIES

Appearance	Light Amber liquid
Pour Point, @ °C (°F)	-32(-25)
Specific Gravity	1.04
Ionic Charge	Cationic
Solubility in water, acid and brine:	Soluble

MAYCO STIM-239 is not oil soluble, and should not be added to oil-based fluids. It should not be used in conjunction with anionic materials unless testing has indicated that the materials are compatible.

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