

**Mayco Stim-239™**

**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.

**PERFORMANCE**

**Mayco Stim-239** provides long-lasting protections of water-sensitive formation clays during work-over or stimulation treatments; facilitates higher hydrocarbon production potential by maintaining water-wet conditions in the formation; and is effective in all types of wells and formations.

**TECHNICAL FEATURES AND ADVANTAGES**

- Stabilizes any water, brine or acid-based stimulation treatment requiring control of migration and swelling of clay minerals in any work-over or stimulation treatment. It also stabilizes potentially mobile siliceous fines such as kaolinite, feldspars and fine quartz.
- Can be added "on-the-fly" or batch mixed.
- Has been tested to temperatures as high as 300°F (149°F).
- Is not readily removed by subsequent treatments using brines or acid. Leaves sand and silicates water-wet.
- Requires no shut-in period.
- Is compatible with mineral acids, brines and foamers for foam frac applications. It is also effective in cross-linked gel systems and is compatible with nonionic surfactants.
- 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.

**TYPICAL PHYSICAL AND 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

**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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