

## INFORMATION

# OIL AID-CS-1

CLAY STABILIZER

### DESCRIPTION

OIL AID-CS-1 is an inorganic chemical that stabilizes clay formations that contain swelling clays. OIL AID-CS-1 has a powerful monovalent cation that locks onto bentonitic clays, preventing clay hydration and reducing the mobility of the clay within the formation. The swelling (hydration) and movement of clays in a formation are major contributors to formation damage and reduction of permeability and production.

### APPLICATION

OIL AID-CS-1 is designed for use in treating wells that produce from water-sensitive formations. OIL AID-CS-1 can be used in drilling, completion, gravel packs, frac and stimulation fluids to reduce formation damage from hydratable clays. OIL AID-CS-1 is environmentally safe and has no temperature limitations.

### RECOMMENDED TREATMENT

OIL AID-CS-1 is normally used in concentrations ranging from 3 to 10% by weight. The precise concentration is dependent upon the amount of bentonite clays in the shale or matrix of the formation, and the formulations of the fluid to be used.

### PACKAGING

OIL AID-CS-1 is packaged in export bags, bulk bags, and is also available in bulk in some areas.

OIL AID-CS-1 is a Messina trademark