

# OIL AID-CS-10

## CLAY STABILIZER

### DESCRIPTION

OIL AID-CS-10 is a cationic polyelectrolytic clay stabilizer for use in well stimulation operations. Its properties are:

Form	Liquid
Specific Gravity at 60° F	1.17
Flash Point, SFCC	200° F
Pour Point	-5° F
pH	1.0
Charge	Cationic
Solubility:	1% in water Soluble 1% in 15% HCl Soluble 1% in kerosene Insoluble

### APPLICATION

The swelling or migration of water sensitive clays in producing and injection wells can become a serious problem in well stimulation operations. OIL AID-CS-10 stabilizes these clays against the sort of problems which might occur on contact with aqueous stimulation fluids. The use of OIL AID-CS-10 helps ensure excellent retention of formation permeability.

The product can be used in preflush, fracturing and acidizing fluids and is compatible with most aqueous crosslinked gel systems. OIL AID-CS-10 should be tested before being used with any anionic surfactant.

### RECOMMENDED TREATMENT

To inhibit clay swelling and migration, add 2 to 5 gallons OIL AID-CS-10 per 1000 gallons of stimulation fluid, depending on the sensitivity of the clays to be treated.

### HANDLING

Rubber gloves and goggles should be worn while handling any acidic product. In case of eye contact, flush continuously with water for 15 minutes and obtain medical attention. In case of skin contact, wash with soap and water for 15 minutes.

### PACKAGING

OIL AID-CS-10 is available in 55-gallon drums or in bulk.

OIL AID-CS-10 is a Messina trademark