



## PRODUCTS TECHNICAL DATA

### PRODUCT NAME : Organic cationic clay stabilizer, **ME-OCCS**

**ME-OCCS** the organic cationic clay stabilizer is made of olyquaternary amine type and polymer. **ME-OCCS** organic cationic clay stabilizer is mainly used for completion fluid, workover fluid and other downhole working fluid. The organic cationic clay stabilizer can effectively prevent clay swelling and particle migration and protect reservoir.

**ME-OCCS** has small relative molecular weight and small molecular size range, which can prevent the clay stabilizer from blocking the micropore throat of tight reservoir and reduce the damage to low permeability reservoir permeability. The main agent in the clay stabilizer contains multiple cationic points. The bond point between clay stabilizer molecule and reservoir is improved, the anti-expansion property is improved, the preparation process is simple, the material is easy to obtain, and the fracturing fluid system can be given long-term clay stability.

**ME-OCCS** is a new chemical treatment agent developed recently. It can be used in completion fluid to stabilize clay, reduce the pollution of formation by completion fluid, and also in water-based drilling fluid to improve the inhibition effect of drilling fluid. The results of using organic cationic polymer drilling fluid at home and abroad show that the chemical treatment agent has the following characteristics :1 compared with other drilling fluids, the drilling cost is low and the drilling speed is high, which reduces the accidents of drilling shale. It can stabilize clay, prevent clay from hydration and swelling, and has good inhibition effect. When used in the completion fluid, it can prevent the clay from hydration and swelling, migration and reduce formation pollution. It can cover the drilling chip, restrain the dispersion of drilling chip and reduce the solid phase in drilling fluid.

**ME-OCCS** can be strongly adsorbed on clay surface through multiple attachment points, which is not easy to decompose, and the effective period of clay stabilizer is long. The compatibility of **ME-OCCS** and fracturing fluid is good, and the volume concentration of fracturing fluid is 0.5% of the clay stabilizer was not precipitated.



Application scope and main characteristics

1- Clay stabilizer is not restricted to any particular formation or pH. Limestones and dolomites can be treated as well as sandstones.

2-Acid, neutral, or alkaline pH's are tolerated by **ME-OCCS** with no significant change in efficiency.

Recommended dosage: 1-4%

Appearance: light brown flowing powder (320 mesh). Requires 2.4 gal of water per 100 lbs of agent, resulting in a slurry weight of 25 lb/gal with a specific gravity of 3.0.

The comparable competitive products :Baroid Clay Sync

Items	Index
<b>Appearance</b>	Light yellow powder or particle
<b>Sieve allowance (passing 0.28mm standard sieve) %, ≤</b>	10
<b>Moisture %, ≤</b>	8
<b>Variation of drilling fluid density g/cm</b>	± 0.03
<b>Filtration loss rate of drilling fluid ml. ≤</b>	35.0