

CLAY STE™ PAPO

Description

CLAY STE™ PAPO is a clay stabilizer designed to minimize formation damage that can occur when treatment fluids interact with clays imbedded in formation. CLAY STE™ PAPO is low molecular weight poly-amine polymer and can also control migrating fines through agglomeration preventing formation damage and increasing production.

Typical Physical Properties

Appearance	Amber to Brown liquid
Solubility	Soluble in Water
Density	8.8 to 9.2 lbs/ga
pH	7 to 8
Freezing Point	< 15 °F
Flash Point (closed cup)	> 250 °F
Typical dosage	0.5 – 4.0 gpt

Advantages

- Minimizes formation damage that can occur from clays and continues to protect the formation as the wells switch from flowback into production.
- Effective at stabilizing both swelling and migrating clays.
- Outperforms 70% choline chloride at the same loadings on both API bentonite and formation cuttings.
- Compatible with anionic systems including slick water and crosslinked fluids.
- Can be used in freshwater, brines, or acid systems and will not hinder the performance of corrosion inhibitors.

Performance

Clay control [2 gpt]	CST time using API Bentonite* [sec]	CST time using Pierre Shale [sec]
None	148	134.9
70% Choline Chloride	14.9	62.8
CLAY STE™ PAPO	9.9	30

* Contains 83% silica flour and 17% Wyoming Bentonite

Compatibility

Compatible with Stainless Steel, HDPE, PVC, Fiber Glass, Plexiglass, BUNA N, Neoprene, Teflon, Hypalon, Viton. Not compatible with Brass, Aluminum, Copper.

DoT Classification

Not DoT Regulated for transport