

PCS-20

Permanent Clay Control

41115-003



LIBERTY



General Information:

PCS-20 is an economical permanent clay stabilizer. It has no surfactant properties and so will not oil-wet or otherwise damage formations.

Physical Properties:

Density 7.9 lbs/gal.
Solubility in Water Soluble
Solubility in Diesel Insoluble
Appearance Colorless to straw liquid
Odor Mildly alcohol
Flash Point 78°F
pH 1% Solution 5-7
Freeze Point: 6°F

Chemical Description:

PCS-20 contains cationic polymers in an alcohol/water solution.

Limitations:

PCS-20 may be incompatible with anionic surfactants or with anionic polymers (many polyacrylamides or certain cellulose derivatives such as CMC or CMHEC). Such incompatibility may be obvious, as seen in “gunking out”, or occasionally may result only in reduced effectiveness of the product. It would be best to avoid usage with any anionics in the absence of test data showing that such use is acceptable. PCS-20 may interfere with crosslinkers, particularly zirconium or titanium-based, in some fluids. Lab testing is strongly recommended if clay stabilizer is desired in fluids crosslinked with these metals.

Recommended Uses:

Use of PCS-20 is indicated whenever high clay contents of formations lead to water sensitivity.

Some applications are:

1. In clear work-over fluids.
2. In fracturing pre-pads or throughout fracturing treatments.
3. In sandstone acidizing, either in acidic pre-flushes or throughout the treatment.



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Treating Applications:

PCS-20 is typically loaded at levels from 2.0 to 5.0 gallons per thousand gallons of fluid, depending on formation clay content. In fresh water based fluids, PCS-20 should be used along with potassium chloride substitute to avoid possible immediate “shocking” of clays and subsequent potential damage to permeability. Use of KCl is not normally required in acids or in brine with salinity comparable to that native to the formation being treated.

Packaging:

PCS-20 is obtainable in 55 gallon poly drums, 330 gallon poly totes and Bulk storage.

DOT Information:

DOT information: Not DOT Regulated



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