

SHALEMUL

Product Description

SHALEMUL® P emulsifier is a liquid blend of organic fatty acids which provides a stable water-in-oil emulsion, improved thermal stability and enhanced HPHT filtration control. It serves as the primary emulsifier for SHALEDRIIL® diesel or mineral oil-based drilling fluid system specially applied in shale gas and tight oil blocks. It requires the addition of lime to produce a calcium soap in-situ.

Applications/Functions

- Stabilizes brine-in-oil emulsions using calcium chloride or calcium bromide brine
- Improves the dispersion character of particles in high-density fluids
- Promote oil-wetting in invert emulsion systems
- Effectively disperses high-density particles in emulsions to alleviate settling

Advantages

- Effective at low concentrations
- Temperatures stable to > 350°F
- Compatible with other oil-based and synthetic mud additives and systems

Typical Properties

- Appearance: Dark liquid
- Flash point: >199°F
- Pour Point: <14°F
- Specific gravity: 0.93

Recommended Treatment

- A typical range is 4-12 ppb
- For every pound of SHALEMUL® P that is added to the system, add 0.5 ppb of lime

Package

- 55 GAL DRUM