PERFORMUL™

EMULSIFIER

Product Description

PERFORMUL™ emulsifier is a primary emulsifier for ENVIROMUL™ and INNOVERT® oil-based drilling fluid systems. PERFORMUL emulsifier is preferred for use in the Norwegian sector because it is a yellow-rated emulsifier. However, PERFORMUL emulsifier can be used worldwide in a number of different fluids. PERFORMUL emulsifier can be used to prepare invert emulsion fluids with a variety of weighting agents and is particularly beneficial with manganese tetroxide. PERFORMUL emulsifier can also be used effectively in heavy systems at high temperature to give lower viscosity than traditional emulsifiers.

Applications/Functions

» Stabilizes brine-in-oil emulsions using calcium chloride or calcium bromide brine
» Improves the dispersion character of particles in high-density fluids
» Remains stable at temperatures up to 500°F (260°C)
» Effectively disperses high-density particles in emulsions to alleviate settling

Advantages

» Yellow rated product for North Sea usage
» Effective wetting agent with manganese tetroxide weighting agent
» Imparts reduced viscosity to high-density systems over 16 lb/gal (1.92 SG) relative to conventional emulsifiers

Typical Properties

» Appearance: Yellow to brown liquid
» Solubility: Oil Soluble
» Specific Gravity: 1.0
» Flash Point: >212°F (100°C)

Recommended Treatment

- Add 2-6 lb/bbl (5.7-17.1 kg/m³) PERFORMUL emulsifier in typical invert emulsions fluids.
- Add 4-10 lb/bbl (11.4-28.5 kg/m³) PERFORMUL emulsifier in INNOVERT fluids
- For high-density, high temperature applications, use 6-18 lb/bbl (17.1-51.4 kg/m³) depending on fluid density.

Packaging

PERFOR MUL emulsifier is available in 55-gal (208-L) drums and 1980-lb (900-kg) IBC totes.