

OPTIVERT™

EMULSIFIER



NEWPARK
DRILLING FLUIDS

www.newparkdf.com

PRODUCT DESCRIPTION

OptiVert™ emulsifier is a fatty acid derived product which provides a stable water-in-oil emulsion. It is designed as an alternative to OptiMul™ II for Newpark's OptiDrill™ or OptiPhase™ diesel- or mineral oil-based drilling fluid.

BENEFITS

- Provides a stable emulsion in a cost-effective manner
- Allows adjustable concentrations to balance emulsion stability with increased ROP
- Imparts oil-wetting characteristics
- Performs effectively in the presence of contaminants

APPLICATION

OptiVert emulsifier can be added when first preparing the OptiDrill system or as a treating agent during drilling operations. The product is effective with NaCl, CaCl₂ and NewPhase™ internal phases. It should be used in an alkaline environment. An excess of Ca(OH)₂ (lime) should always be present in the fluid.

TREATMENT RECOMMENDATION

OptiVert concentrations should be engineered for the specific fluid design, but a typical range is 2-8 lb/bbl (0.27-1.09 gal/bbl). The need for additional treatments is indicated by the presence of water in the HPHT filtrate and/or low emulsion strength as measured by an electrical stability meter. The emulsifier can be added through the hopper or directly into the pits, providing agitation is sufficient.

TYPICAL PHYSICAL PROPERTIES

Appearance.....Brown liquid
Flash Point (PMCC) 222.8°F (106°C)
Specific Gravity..... 0.97

HANDLING AND STORAGE

Store in a cool, dry, well ventilated area away from ignition sources and strong oxidizing agents. Use appropriate hygiene, clothing and personal protective equipment suitable for work being done. Review the SDS thoroughly before using this product.

PACKAGING

OptiVert emulsifier is available in 55-gallon (208-liter) drums, 275-gallon (1,041-liter) totes and bulk quantities.