



EPI-TEC emulsifier

Delivers emulsion stability in oil-based drilling fluid systems

Applications

- Oil-based invert emulsion drilling fluids
- Conventional or unconventional oil and gas wells up to 275°F (135°C)

Features and benefits

- Provides system stability across a range of densities, oil-water ratios, and levels of internal phase salinity
 - Compatible with freshwater, seawater, and CaCl₂ and NaCl brines
- Reduces surface tension of the internal phase fluid
- Contains no aromatic solvents
 - Not classified as a flammable liquid

The **EPI-TEC™ emulsifier** from Baker Hughes, a GE company (BHGE), is a high-efficiency, high-performance, anionic emulsifier used with lime hydrate to provide temperature-stable emulsions in diesel or mineral oil-based invert emulsion fluid systems.

The EPI-TEC emulsifier is compatible with a wide range of internal phase salinities and can be used to emulsify calcium chloride and sodium chloride brines, seawater, or freshwater. EPI-TEC additive, together with lime hydrate, can also provide some filtration control in oil-based muds.

The EPI-TEC emulsifier is recommended for use in wells with bottom hole temperatures below 275°F (135°C) and will give best results when used in combination with EPI-VIS™ rheology modifier in an invert emulsion system.

Recommended treatment

Concentrations will vary depending on oil-water ratio and desired fluid properties such as electrical stability. Treatments of 6.0 to 12.0 lb/bbl (17.1 to 34.2 kg/m³) are effective for most applications.

Environmental information

For information concerning environmental regulations applicable to BHGE drilling fluids products, contact the BHGE Health, Safety, and Environment department.

Shipping

Transportation of the EPI-TEC additive is not restricted by either US or international regulatory agencies.

Safe handling recommendations

Use normal precautions for employee protection when handling products. Utilize appropriate personal protective equipment (PPE) for employee comfort and protection. See the product's safety data sheet (SDS) prior to use.

Packaging

The EPI-TEC emulsifier is packaged in 55-gal (208.2-L) non-returnable drums.

Typical properties	
Appearance	Dark liquid
Specific gravity	0.90 to 1.02
Flash point	>204°C (>400°F)