



EPI-COTE wetting agent

Provide rapid oil-wetting of solids in oil-based drilling fluids

Applications

- Oil-based invert emulsion drilling fluids
- Conventional or unconventional oil and gas wells up to 300°F (149°C)

Features and benefits

- Promotes oil-wetting of solids
 - Helps provide rheological stability
- Reduces viscosity and gel strengths in invert emulsion drilling fluids
 - Improves rheological properties of dense muds formulated for deep wells
 - Fluidizes solids-laden mud without dilution
- Acts as a supplemental emulsifier
 - Helps combat water contamination

The **EPI-COTE™ wetting agent** from Baker Hughes, a GE company (BHGE), is used to oil-wet weighting agents, bridging materials, and drilled solids in diesel or mineral oil-based invert emulsion fluid systems. EPI-COTE wetting agent reduces viscosity and gel strengths of invert emulsion systems without the need for dilution.

The EPI-COTE additive can also function as a supplemental emulsifier to minimize the effects of water contamination.

Recommended treatment

Concentrations will vary depending on oil-water ratio, mud density, and solids content. Treatments of 0.5 to 4.0 lb/bbl (1.4 to 11.4 kg/m³) are effective for most applications.

Pilot testing should be conducted to determine the optimum concentration. Additions of EPI-COTE wetting agent will reduce the yield point, low shear rate viscosity, and gel strengths of invert emulsion drilling fluids. Severe overtreatment may cause irreversible loss of gel structure which can result in barite sag or settling. Product additions should be completed in small steps to avoid overtreatment. Shear and temperature will enhance the thinning effect on the drilling fluid.

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-COTE 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-COTE wetting agent is packaged in 55-gal (208.2-L) non-returnable drums.

Typical properties	
Appearance	Amber liquid
Specific gravity	0.96 to 1.01
Flash point	>200°C (>392°F)

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