

Product Description

DFI-GEL™ is a montmorillonite-based clay viscosifier that meets API specifications 13A, section 11 requirements. It builds a primary filter cake, aids filtrate reduction and suspends drilled solids.

Application Areas

- Form a thin filter cake with low permeability
- Can reduce water seepage into formations
- Hydrate more and faster than other types of clay.
- Promote hole stability in poorly consolidated formations

Advantages

- High yield point and gel strength for suspension.
- Increase viscosity of water based drilling fluids.
- Helps provide suspension for weighted fluids with Barite or Hematite
- Effective cutting transport and suspension characters.
- Environmentally responsible.

Properties

- Physical appearance light tan powder.
- Bulk density 820 – 860 kg/m³.
- Specific Gravity 2.4 – 2.6.
- Residue > 75 micron (wet) 4% maximum.

Recommended Treatment

To optimize the yield and performance of DFI-GEL™ Viscosifier, pretreat make-up water with soda ash at a concentration of 0.5 – 1.0 kg/ m³ to reduce excess calcium hardness to ≤100 mg/l and adjust pH to a range between 8.5 – 9.5, add DFI-GEL™ Viscosifier, slowly and uniformly to the entire circulating system or mix tank. recommended concentration 22-25 lb/bbl

Suspension Properties (22.5 g into 350 cm³ water)

Viscometer dial reading @ 600 rpm	30, minimum
Yield Point/Plastic Viscosity	6, maximum
Filtrate Volume	16 cm ³ , maximum

Packing

Available in 25 kg multiwall paper sacks and 1000 kg big bags or according to customer request.

Safe Handling

Utilize normal precautions for employee protection when handling chemical products. Utilize appropriate respirator, gloves, goggles and apron. Refer to the Material Safety Data Sheet (MSDS) for this product prior to use.