

## Product Description

DFI-T GEL™ is a premium-grade bentonite viscosifier that meets tunneling, HDD requirements and the API Specification 13A, DFI-T GEL™ provides viscosity, gelling, suspends drilled solids, and build a primary filter cake which aids in filtrate reduction

## Application Areas

- Form a thin filter cake, thus, reduce water seepage or filtration into permeable formation
- Improve tunnel and borehole stability.
- Promote hole stability in poorly consolidated formations

## Advantages

- Reduce consumption of bentonite during drilling.
- High yield point and gel strength for suspension.
- Increase viscosity of water based drilling fluids.
- Hydrate more and faster than other types of clay.
- Effective cutting transport and suspension characters.
- High lubricant for TBM.
- Environmentally responsible.

## Properties

- Physical appearance Light tan/green powder.
- Bulk density 820 – 860 kg/m<sup>3</sup>.
- Specific Gravity 2.4 – 2.6.
- Residue > 75 micron (wet) 4% maximum.
- Viscometer dial reading @ 600 rpm > 110.
- Filtrate Volume 15 cm<sup>3</sup>, maximum.
- Yield @ AV of CP 27 m<sup>3</sup>/Ton.

## Recommended Treatment

To optimize the yield and performance of DFI-T GEL™ Viscosifier, pretreat make-up water with soda ash at a concentration of 0.5 – 1.0 kg/ m<sup>3</sup> to reduce excess calcium hardness to ≤100 mg/l and adjust pH to a range between 8.5 – 9.5. Add DFI-T GEL™ Viscosifier, slowly and uniformly to the entire circulating system or mix tank.

DFI-T GEL™ Viscosifier Added to Water Based Fluids with Recommended Concentration		
lb/bbl	lb/100gallons	kg/m <sup>3</sup>
8.4 – 12.6	20 – 30	25 – 35

## 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.