



Hydro-Pac™

Salt Tolerant Biodegradable Drilling Support Fluid

Description:

Hydro-PacTM is a dry hybrid-polymer drilling fluid. Hydro-PacTM is an innovative breakthrough in drilling fluids and containment fluids due to its ability to use saltwater as the hydrating mix water.

Recommended Use:

Hydro-PacTM is the product of choice for drilling Horizontal desalination wells, Tie-Backs and Mini-Piles and is engineered for use in slurry cutoff walls and Tunneling drilling operations where exposure to contaminates or seawater is expected. Produced from dry free flowing polymers, Hydro-PacTM provides exceptional bore hole stability and cuttings removal in a wide range of ground conditions.

Characteristics:

- Hydrates easily in seawater, brackish water or fresh water.
- Exceptional fluid loss control minimizes formation sloughing in Tiebacks and Mini-Piles.
- When installing Tie-backs controls the water flow and keeps borehole open stopping flowing sands from entering.
- Minimizes formation damage, maximizes production rates.
- Effective in all ground conditions (one sack drilling fluid).
- Can be cleaned down through regular de-sanders.

Benefits:

- Fast and efficient mixing in fresh and salt water.
- Stable while drilling and recycles.
- 4.4 lbs (2) Kilos of Hydro-Pac[™] = viscosity of 132 lbs or 60 Kilos of civil grade 90 BBL bentonite or 25 Kilos of high yield 220 BBL bentonite.
- Naturally biodegrades (stabilizer can be added to retard biodegradation).
- Can be chemically destroyed with Slurry Buster.
- Low cost slurry disposal. Destroy or biodegrade the Hydro-Pac[™] polymer to settle out drilled cuttings in a settlement pit.

Mixing and Application:

	Kg/m ³	lbs/100 US Gal
Consolidated Formation (Clay/Shale)	2 – 4 Kg's	1.4 – 2.6 lbs
Unconsolidated Formation (Sand/Gravel)	3 - 7 Kg's	2.6 – 4.6 lbs
Break-Down: Slurry Buster	5-gal per 1000/gal slurry	

Packaging:

Hydro-Pac^m is packaged in 11 lb (5Kg) clear plastic bags (5 x 11 lb (5Kg) bags per 55 lb cardboard case 36 per pallet) or 55 lb (25 Kg) heavy wall poly bags 40 bags per stretch wrapped pallet.