

# HYDRO-PAC™

## SALT TOLERANT BIODEGRADABLE DRILLING SUPPORT FLUID

### DESCRIPTION

HYDRO-PAC is a dry hybrid-polymer drilling fluid. HYDRO-PAC 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-PAC 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 contaminants or seawater is expected. Produced from dry free flowing polymers, HYDRO-PAC provides exceptional bore hole stability and cuttings removal in a wide range of ground conditions.

### CHARACTERISTICS

- Hydrates easily in seawater, brackish water, or freshwater
- Exceptional fluid loss control minimizes formation sloughing in tie-backs and mini-piles
- When installing tie-backs controls the water flow and keeps bore hole open stopping flowing sands from entering
- Minimizes formation damage, maximizes production rates
- Effective in all ground conditions (one bag drilling fluid)
- Can be cleaned down through regular de-sanders
- Fast and efficient mixing in freshwater and saltwater

### BENEFITS

- Stable while drilling and recycles
- 4.4 lbs (2 kg) of HYDRO-PAC = Viscosity of 132 lbs or 60 of civil grade 90 bbl bentonite or 25 kg of high yield 220 bbl bentonite
- Naturally biodegrades (stabilizer can be added to retard biodegradation)
- Low cost slurry disposal. Destroy or biodegrade the HYDRO-PAC polymer to settle out drilled cuttings in a settlement pit

### MIXING AND APPLICATION

	lbs/100 Gal	kg/m <sup>3</sup>
Consolidated Formation (Clay/Shale)	1.67-3.4	2-4
Unconsolidated Formation (Sand/Gravel)	2.51-5.85	3-7

### PACKAGING:

~50 lb (22.7 kg) heavy wall poly bags, 40 per pallet. All pallets are plastic-wrapped.

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